**United States Environmental Protection Agency**

Office of Air and Radiation

**EPA**

Office of Air Quality Planning and Standards

Air Quality Policy Division

Geographic Strategies Group

**August, 2003**

**INFORMATION COLLECTION REQUEST**

**SUPPORTING STATEMENT FOR**

**EPA ICR NUMBER 2705.02,**

**ICR for the Final Rule, Federal “Good Neighbor Plan” for the 2015 Ozone National Ambient Air Quality Standards: Transport Obligations for non-Electric Generating Units**



**EPA # 1230.16**

EPA # 2705.02

This is a new information collection request (ICR), EPA 2705.02, and it addresses the monitoring, calibrating, recordkeeping, reporting, and testing requirements under the final rule, entitled “Federal Good Neighbor Plan for the 2015 Ozone National Ambient Air Quality Standards.”

**Executive Summary**

***Draft 05/01/06***

Owners and operators of certain non-Electric Generating Unit (non-EGU) industry stationary sources will potentially modify or install new emission controls and associated monitoring systems to meet the nitrogen oxides (NOx) emission limits of this final rule. The burden in this ICR reflects the new monitoring, calibrating, recordkeeping, reporting, and testing activities required by industry. It also includes estimates of administrative burden on the EPA in implementing the rule.

**Table E-1** **Estimated Industry Respondents’**

**Burden to Implement Requirements**

| **Task Element** | **Industry** | |
| --- | --- | --- |
| **Average Annual Hours** | **Average Annual Cost ($)** |
| Total Burden by Industry Respondents | *11,481* | *$3,823,000* |

This document fulfills the Agency's requirements under the Paperwork Reduction Act (PRA) with regard to determining the regulatory burden associated with the implementation of the

**1.1 Title**

**EPA TRACKING NUMBER: 2705.02**

**OMB Control NUMBER:**

**2060-NEW**

**1** Identification of the Information Collection

final rule, entitled “Federal Good Neighbor Plan Addressing Regional Ozone Transport for the 2015 Primary Ozone National Ambient Air Quality Standard” (final rule). The title of this Information Collection Request (ICR) is “ICR for the Final Rule, Federal “Good Neighbor Plan” for the 2015 Ozone National Ambient Air Quality Standards: Transport Obligations for non-Electric Generating Units.”

**1.2 Description**

On October 1, 2015, the U.S. Environmental Protection Agency (EPA) revised the primary and secondary 8-hour standards for ozone to 70 parts per billion (ppb). States were required to provide ozone infrastructure State Implementation Plan (SIP) submissions to fulfill interstate transport obligations for the 2015 ozone NAAQS by October 1, 2018. The interstate transport obligations under Clean Air Act (CAA) section 110(a)(2)(D)(i)(I), are referred to as the “good neighbor provision” or the “interstate transport provision” of the Act. For non-EGUs, this final rule would resolve the interstate transport obligations of 20 states under the “good neighbor provision” for the 2015 ozone NAAQS and is the subject of this clearance request.

The EPA is establishing nitrogen oxides (NOx) emissions limitations during the ozone season (May 1 through September 30) beginning in 2026 for certain non-EGU industry stationary sources to eliminate significant contribution to downwind ozone air quality problems in other states. The implementation of the final rule would require owners and operators of affected units within certain non-EGU industry sectors to conduct new compliance activities. The Paperwork Reduction Act requires the information found in this ICR number 2705.02 to assess the burden (in hours and dollars) of these new compliance activities.

The EPA is not expecting any required respondent activities or costs to begin until later in 2023 after the final rule becomes effective. The final rule compliance period with emissions limits for non-EGU emissions sources begins in 2026 and would occur during the 2026-2029 time period of any subsequent ICR renewal. The majority of ICR respondent burden and cost will be realized during the 2026-2029 renewal timeframe and beyond. Consequently, this non-EGU ICR is likely an overestimate of the burden occurring in the 2023-2025 timeframe. In the 2023-2025 timeframe, owners/operators of certain non-EGU affected facilities, and the EPA may conduct new monitoring, calibrating, recordkeeping, reporting, and/or performance testing activities. This information is being collected to assure compliance with the final rule. The required activities are specific to each non-EGU industry sector and can vary across the range of industry sectors. In general, the final rule will require initial notifications, performance tests, and periodic reports by owners/operators. Recordkeeping shall be maintained and retained for at least five years following the date of such measurements, maintenance reports, and records. All reports are sent to the EPA and potentially delegated state or local authority. Certain reports may be submitted electronically to the EPA through the Compliance and Emissions Data Reporting Interface (CEDRI). In the event that there is no delegated authority, the reports are sent directly to the EPA regional office.

In the 2023-2025 timeframe, approximately 902 facilities and 3,328 affected non-EGU emissions units (industry respondents) per year will be subject to the final rule and this estimate is based on the Agency’s memorandum titled “Summary of Final Rule Applicability Criteria and Emissions Limits for Non-EGU Emissions Units, Assumed Control Technologies for Meeting the Final Emissions Limits, and Estimated Emissions Units, Emissions Reductions, and Costs” for the final rule. The “Screening Assessment of Potential Emissions Reductions, Air Quality Impacts, and Costs from Non-EGU Emissions Units for 2026”[[1]](#footnote-3) (Non-EGU Screening Assessment) memorandum prepared for proposal identified the following non-EGU industry source types: furnaces in Glass and Glass Product Manufacturing; large boilers and reheat furnaces in Iron and Steel Mills and Ferroalloy Manufacturing; kilns in Cement and Cement Product Manufacturing; reciprocating internal combustion engines in Pipeline Transportation of Natural Gas; and large boilers in Basic Chemical Manufacturing, Metal Ore Mining; Petroleum and Coal Products Manufacturing; Pulp, Paper, and Paperboard Mills; and combustors and incinerators in Solid Waste Combustors and Incinerators.

Documented emissions data is necessary to determine compliance with the NOx emission limitations required by this final rule for certain non-EGU industry stationary sources. The recordkeeping and reporting requirements in the provisions applicable to these sources ensure compliance with the applicable regulations. Performance tests are required to determine an affected facility’s initial capability to comply with the emission standards. In some cases, continuous emission monitors (CEMS) may be used to ensure compliance with the standards at all times. For other sources not using CEMS, other monitoring, reporting, and recordkeeping requirements will apply. The required reports are used to determine periods of excess emissions, identify problems at the facility, verify operation/maintenance procedures and for compliance determinations.

**2.1 Need / Authority for the Collection**

**2 Need and Use of the** Collection

Clean Air Act (CAA) section 110(a)(2)(D)(i)(I), 42 U.S.C. § 7410(a)(2)(D)(i)(I) – often referred to as the “good neighbor” provision – requires all states, within three years of the EPA’s promulgation of a new or revised NAAQS, to revise their SIPs to prohibit certain emissions of air pollutants because of the adverse impact those emissions would have on air quality in other states through transport.

The EPA’s promulgation of the final rule is supported by three additional statutory provisions. First, CAA section 110(c)(1), 42 U.S.C. § 7410(c)(1), requires the EPA Administrator to promulgate a FIP at any time within two years after he or she finds that a state has failed to make a required SIP submission, finds that a SIP submission is incomplete, or disapproves a SIP submission. Second, CAA section 301(a)(1), 42 U.S.C. § 7601(a)(1), gives the Administrator general authority to prescribe such regulations as are necessary to carry out his or her statutory functions. Finally, CAA section 301(d)(4), 42 U.S.C. § 7601(d)(4), authorizes the Administrator to prescribe such regulations as are necessary or appropriate to administer CAA provisions in Indian country, including Indian reservation lands and other areas of Indian country over which the EPA or a tribe has demonstrated that a tribe has jurisdiction.

The data collected from non-EGU industry respondents is a result of new monitoring, calibrating, recordkeeping, reporting, and testing requirements under the final rule. These data provide the documentation necessary to determine compliance with the NOx emission limitations established by this final rule for certain non-EGU industry stationary sources.

**2.2 Practical Utility / Users of the Data**

The recordkeeping and reporting requirements in the standards ensure compliance with the applicable regulations, which are promulgated in accordance with the Clean Air Act. The collected information may also be used for targeting inspections and as evidence in legal proceedings.

Performance tests are required to determine an affected facility’s initial capability to comply with the emission standards. During the performance test a record of the operating parameters under which compliance was achieved may be recorded and used to determine compliance in place of a continuous emission monitor.

The notifications required in these standards are used to inform the Agency or delegated authority when a source becomes subject to the requirements of the regulations. The reviewing authority may then inspect the source to check if the pollution control devices are properly installed and operated, malfunctions are being detected and repaired, and the standards are being met. The performance test may also be observed.

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

The information in this ICR is based upon the best data available to the Agency at this time. Incomplete data and sampling limitations necessitated a certain amount of extrapolation and estimation.Consequently, the reader should not consider the conclusions to be an exact representation of the level of burden or cost that *will* occur. Instead, this ICR should be considered a directionally correct assessment of the impact the final rule *may* have beginning in 2023. However, the EPA is expecting only minimal required respondent activities and associated costs in the 2023-2025 period. The primary compliance obligations of the rule for non-EGU sources do not begin until 2026. Consequently, this non-EGU ICR is likely an overestimate of the burden occurring in the 2023-2025 timeframe.

**2.3 Caveats and Considerations**

Throughout this ICR, the reader will observe estimated values that show accuracy to the single hour or dollar. However, reporting values at the single unit level can be misleading. In most situations, the proper way to present estimated data would be to determine an appropriate level of precision and truncate values accordingly, usually in terms of thousands or millions of units. For instance, a spreadsheet-generated estimate of $5,456,295 could be presented in the text as $5.5 (millions) or $5,456 (thousands). One problem with such an approach is the loss of data richness when the report contains a mixture of very large and very small numbers. Consequently, to avoid the loss of information through rounding, this ICR reports all values at the single unit level and reminds the reader that there is no implied precision inherent in this style of reporting.

Under this rule, the information is sent directly to the appropriate EPA office. If there has been a delegation to a state or local agency, 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 rule. Therefore, no duplication exists.

**3.1 Non-Duplication**

**3 Non-Duplication, Consultation, and Other Collection Criteria**

**3.2 Public Notice Requirements**

The EPA issued a Federal Register notice requesting comments on the proposed rule ICR and provided a 76-day public notice and comment period. The EPA received comments from two commenters and the EPA responded to their concerns in the document, “Federal Good Neighbor Plan for the 2015 Ozone National Ambient Air Quality Standards, Response to Public Comments on Proposed Rule,” which is included in the docket for this rulemaking.

Each year over the 2023-2025 timeframe, approximately 902 facilities and 3,328 affected non-EGU emissions units (respondents) will be subject to the final rule. The final rule compliance period with emissions limits for non-EGU emissions sources begins in 2026 and would occur during the 2026-2029 time period of any subsequent ICR renewal. A similar number of facilities and sources and any additional new affected sources will be required to comply with the requirements of the final rule beginning in 2026 during the anticipated 2026-2029 ICR renewal period. The majority of ICR respondent burden and cost will be realized during the 2026-2029 renewal timeframe and beyond. Under 5 CFR 1320.8(d)(1), OMB requires agencies to consult with potential ICR respondents and data users about aspects of ICRs before submitting an ICR to OMB for review and approval. In accordance with this regulation, the EPA will consult with a select list of state agencies and non-EGU industry sector parties by submitting questions via e-mail.

**3.3 Consultations**

**3.4 Less Frequent**

**Collection**

The information collection requested under this ICR is necessary to ensure implementation of the final rule under the authority provided in CAA section 110(a)(2)(D)(i)(I). Regulated entities will be required to submit annual periodic compliance reports to the Administrator.

If this information collection were not carried out at the stated intervals for non-EGU industry sources, the margin of assurance that sources are continuing to meet the standards would decrease and the process of compliance determination by the EPA would slow down. Requirements for information gathering and recordkeeping are useful techniques to ensure that good operation and maintenance practices are applied and emission limitations are met. If the information required by these standards was collected less frequently, the proper operation and maintenance of control equipment and the possibility of detecting violations would be less likely.

**3.5 General**

**Guidelines**

OMB's general guidelines for information collections must be adhered to by all federal agencies for approval of any rulemaking's collection methodology. In accordance with the requirements of 5 CFR 1320.5, the Agency believes:

1. The final rule does not require periodic reporting more frequently than on an annual basis.
2. The final rule does not require respondents to participate in any statistical survey.
3. Written responses to Agency inquiries are not required to be submitted in less than 30 days.
4. Respondents do not receive remuneration for the preparation of reports required by the Act or part 52.
5. To the greatest extent possible, the Agency has taken advantage of automated methods of reporting.

The recordkeeping and reporting requirements contained in the final rule do not exceed any of the PRA guidelines contained in 5 CFR 1320.5, except for the guideline that limits retention of records by respondents to 3 years. The final rule requires both respondents and state or local agencies to retain records for a period of 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. The justification for this exception is found in 28 U.S.C. 2462, which specifies 5 years as the general statute of limitations for federal claims in response to violations by regulated entities. The decision in U.S. v. Conoco, Inc., No. 83-1916-E (W.D. Okla., January 23, 1984) found that the 5-year general statute of limitations applied to the CAA.

**3.6 Confidentiality**

Confidentiality is not an issue for this rulemaking. In accordance with the Clean Air Act Amendments of 1990, any monitoring information to be submitted by sources is a matter of public record. To the extent that the information required is proprietary, confidential, or of a nature that could impair the ability of the source to maintain its market position, that information is collected and handled subject to the requirements of §503(e) and §114(c) of the Act. Information received and identified by owners or operators as confidential business information (CBI) and approved as CBI by the EPA, in accordance with Title 40, Chapter 1, Part 2, Subpart B, shall be maintained appropriately (see 40 CFR 2; 41 FR 36902, September 1, 1976; amended by 43 FR 39999, September 8, 1978; 43 FR 42251, September 28, 1978; 44 FR 17674, March 23, 1979).

The consideration of sensitive questions, (i.e., sexual, religious, personal or other private matters), is not applicable to this rulemaking. The information gathered to develop an implementation plan does not include personal data on any owner or operator.

**3.7 Sensitive**

**Questions**

**Executive Order 12898 and Executive Order 13985**

**3.8 Environmental Justice Considerations**

Consistent with the EPA’s commitment to integrating environmental justice into the agency’s actions, and following the directives set forth in multiple Executive Orders, the Agency has carefully considered the impacts of this action on communities with environmental justice concerns and engaged with stakeholders representing these communities to seek input and feedback.

Executive Order 12898 directs the EPA staff to identify the populations of concern who are most likely to experience unequal burdens from environmental harms; specifically, minority populations, low-income populations, and indigenous peoples (59 FR 7629, February 16, 1994). Additionally, Executive Order 13985 is intended to advance racial equity and support underserved communities through federal government actions (86 FR 7009, January 20, 2021). The EPA defines environmental justice as the fair treatment and meaningful involvement of all people regardless of race, color, national origin, or income, with respect to the development, implementation, and enforcement of environmental laws, regulations, and policies. The EPA further defines the term fair treatment to mean that “no group of people should bear a disproportionate burden of environmental harms and risks, including those resulting from the negative environmental consequences of industrial, governmental, and commercial operations or programs and policies” (https://www.epa.gov/environmentaljustice). In recognizing that minority and low-income populations often bear an unequal burden of environmental harms and risks, the EPA continues to consider ways to protect them from adverse public health and environmental effects of air pollution.

The environmental justice analysis and implications of this final rule are discussed in the Regulatory Impact Analysis (RIA), which is available in the docket for this final rulemaking.The major categories of respondents directly affected during this ICR period of 2023-2025 include the owners/operators of certain non-EGU industry sources. The EPA is not expecting any required respondent activities or costs to begin until later in 2023 after the final rule becomes effective, and the rule’s requirements for these sources in the 2023-2025 period are minimal. The final rule compliance period with emissions limits for non-EGU emissions sources begins in 2026 and would occur during the 2026-2029 time period of any subsequent ICR renewal. The majority of ICR respondent burden and cost will be realized during the 2026-2029 renewal timeframe and beyond. Consequently, this non-EGU ICR is likely an overestimate of the respondent burden occurring in the 2023-2025 timeframe.

**4.1 Respondents**

**4 The Respondents and the Information Requested**

The EPA has conservatively estimated the burden of the non-EGUs in this ICR, which would result in an estimation of burden. As mentioned before, approximately 3,328 affected non-EGU emissions units (respondents) per year within the 20 states will be subject to the final rule. Some of these units (respondents) are aggregated at one facility and thus the estimated hours for activities required of affected facilities are an average value. For certain activities at facilities with multiple units, such as reporting requirements, the actual hours that the facility might spend reporting might be less than the burden estimated in this ICR. Additionally, facilities may already in some cases be conducting the same monitoring or recordkeeping activities due to other requirements (NSPS, NESHAP, permit terms, etc.) and thus there may not be any additional burden on these respondents created by this rule.

The respondents to the monitoring, calibrating, recordkeeping, reporting, and testing requirements are the specified non-EGU industry sector groups, which correspond to the North American Industry Classification System (NAICS) codes found in Table 4.1, NAICS Codes of the Non-EGU Industry Sector Groups.

**Table 4.1 NAICS Codes of the Non-EGU Industry Sector Groups**

|  |  |
| --- | --- |
| **Industry** | **NAICS** |
| Pipeline Transportation of Natural Gas | 4862 |
| Cement and Concrete Product Manufacturing | 3273 |
| Iron and Steel Mills and Ferroalloy Manufacturing | 3311 |
| Glass and Glass Product Manufacturing | 3272 |
| Metal Ore Mining | 2122 |
| Basic Chemical Manufacturing | 3251 |
| Petroleum and Coal Products Manufacturing | 3241 |
| Pulp, Paper, and Paperboard Mills | 3221 |
| Solid Waste Combustors and Incinerators | 562213 |

In this ICR, all data that is recorded or reported is required by the final rule.

**4.2 Information**

**Requested**

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.

Also, regulatory agencies in cooperation with the respondents continue to create reporting systems to transmit data electronically. Most emissions and monitoring information in the reports are reported in an electronic format using the Electronic Reporting Tool (ERT). The data will be extracted from the ERT files and can be viewed through the EPA’s Central Data Exchange (CDX).

Most performance test reports and periodic compliance reports will be submitted to the EPA via the CEDRI or an analogous electronic reporting approach provided by the EPA, which can be accessed through the EPA’s CDX.

The specific activities required of individual owners/operators of affected facilities will vary by each non-EGU industry sector. The tables shown below provide the overall listing of notifications, reports, recordkeeping, and respondent activities that are collectively required by the final rule.

Some sources must make the following reports:

**Notifications**

* Initial notification for existing sources
* Notification of anticipated startup date
* Notification of actual startup date
* Notification of compliance status
* Notification of performance test or performance evaluation

**Reports**

* Annual compliance report
* Performance test report

**Recordkeeping**

* Documentation supporting any initial notification or notification of compliance status or annual compliance report
* Records of performance tests or other compliance demonstrations, and performance evaluations
* Records for continuous emissions monitoring systems, and continuous parameter monitoring systems
* Records of operating limits
* Records of hours of operation
* Maintain records for 5 years

**Respondent Activities**

* Read instructions
* Install, calibrate, maintain, and operate CPMS for temperature, or for pressure drop for control device
* Install, calibrate, maintain, and operate NOx CEMS for control device
* Perform initial performance tests and repeat performance tests if necessary
* 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 Methodologies, and Information Management**

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

**5.1 Agency Activities**

|  |
| --- |
| **Agency Activities** |
| Observe initial performance tests and repeat performance tests if necessary. |
| Review and analysis of notifications and reports, including performance test reports, excess emissions reports, required to be submitted by industry. |
| Audit facility records. |
| Input, analyze, and maintain data in the Enforcement and Compliance History Online (ECHO) and the Integrated Compliance Information System (ICIS). |

This section discusses the development of burden estimates and their conversion into costs, which are separated into burden costs and capital and operating and maintenance (O&M) costs. Capital and O&M costs display the initial (one-time) and ongoing (presented as annual) cost of any new capital equipment the respondent may have to purchase solely for emissions monitoring, information collection, assimilation, and storage purposes. For example, if a source had to purchase a new computer to store and manipulate data, that computer would be a cost of administration subject to reporting in the ICR. In addition, the latest guidance instructs the Agency to differentiate the burden associated with a source’s labor and that which it hires through outside contractors. To the extent a source contracts out for administrative purposes (e.g., employing a third party such as consultants to perform visibility modeling), the burden associated with those contracted tasks are not a burden to the source - but they remain a cost. The reader should read this section with the following considerations in mind:

**5.2 Collection**

**Methodology**

**and**

**Management**

* The Agency believes the time necessary to perform a task is independent of the origins of its labor. For example, if a source would employ 20 hours of burden to fully perform a function, then a contractor hired by the source would also take 20 hours to perform that same task. Furthermore, the Agency assumes no economies or diseconomies of scale, which may lead to a potential overestimate of these burden costs over the timeframe covered in this ICR. The linear combination of any amount of contractor and source effort will also sum to 20 hours. Therefore, the burden estimates in this ICR serve as a reasonably accurate assessment of the total burden to respondents.
* For some burden categories, the Agency believes the hours assigned to them will be divided between the source and outside contractors. For these categories, the Agency established a composite cost per hour by developing a weighted average of the source and contractor wages, with the weight defined by the percentage of total effort each burden source applied. Consequently, the cost developed in this ICR should be interpreted as an upper bound on the actual cost of administration by the source. The methodology for determining cost per hour can be found in greater detail in section 6.2, below.
* This new non-EGU ICR estimates the burden to both federal agencies and industrial sources.

Following notification of startup, the reviewing authority could inspect the facility’s source to determine whether the pollution control devices are properly installed and operated. Performance test and performance evaluation reports are used by the Agency to discern a source’s initial capability to comply with the emission standard and note the operating conditions under which compliance was achieved. Data and records maintained by the respondents are tabulated and published for use in compliance and enforcement programs. The annual 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 Integrated Compliance Information System (ICIS) Air database, which is operated and maintained by the EPA's Office of Enforcement and Compliance Assurance. ICIS Air is the EPA’s database for the collection, maintenance, and retrieval of compliance data for industrial and government-owned facilities. The EPA uses ICIS Air for tracking air pollution compliance and enforcement by local and state regulatory agencies, the EPA regional offices and the EPA headquarters. The EPA can edit, store, retrieve and analyze the data.

Several other computer systems and associated databases have been developed to manage and store data and reports collected. Data collected by industry sources using emission test methods supported by the EPA’s ERT as listed on the EPA’s ERT website (https://www.epa.gov/electronic-reporting-air-emissions/electronic-reporting-tool-ert) at the time of the test can be submitted as performance test reports to the EPA via the CEDRI or an analogous electronic reporting approach. CEDRI can be accessed through the EPA’s CDX (https://cdx.epa.gov/). The data must be submitted in a file format generated using the EPA’s ERT. Alternatively, a facility may submit an electronic file consistent with the XML schema listed on the EPA’s ERT website.

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

**5.3 Small Entity**

**Flexibility**

The Regulatory Flexibility Act (RFA) requires regulatory agencies, upon regulatory action, to assess that action’s potential impact on small entities (businesses, governments, and small non-governmental organizations) and report the results of the assessments in (1) an Initial Regulatory Flexibility Analysis (IRFA), (2) a Final Regulatory Flexibility Analysis (FRFA), and (3) a Certification. For ICR approval, the Agency must demonstrate that it "has taken all practicable steps to develop separate and simplified requirements for small businesses and other small entities" (5 CFR 1320.6(h)). In addition, the agency must assure through various mechanisms that small entities are given an opportunity to participate in the rulemaking process.

The EPA determined that the final rule did not have a significant economic impact on a substantial number of small entities. The Agency estimates that seven percent of the non-EGU industry sector parent companies that own facilities affected by this final action are small entities as defined by the Small Business Administration. More information on small entity impacts is available in the Regulatory Impact Analysis for this final rule.

The final rule does contain several provisions that reduce the impact on certain non-EGU industry regulated entities, which includes certain small entities. For instance, an approved alternative monitoring procedure can be used instead of a CEMS for most non-EGU industry sectors.

Because of 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.

The specific frequency for each information collection activity within this request is shown at the end of this document in the Tables 1 – 3: Annual Respondent Burden and Cost – Pipeline Transportation of Natural Gas, Years 1 through 3, Tables 4 - 6: Annual Respondent Burden and Cost - Cement and Concrete Product Manufacturing, Years 1 through 3, Table 7-9: Annual Respondent Burden and Cost – Iron and Steel Mills and Ferroalloy Manufacturing, Years 1 through 3, Tables 10 - 12: Annual Respondent Burden and Cost – Glass and Glass Product Manufacturing, Years 1 through 3, Tables 13 - 15: Annual Respondent Burden and Cost – Basic Chemical Manufacturing, Petroleum and Coal Products Manufacturing, Metal Ore Mining and Pulp, Paper, and Paperboard Mills, Years 1 through 3, and Tables 16 – 18: Annual Respondent Burden and Cost – Solid Waste Combustors and Incinerators, Years 1 through 3.

**5.4 Collection**

**Schedule**

**6 Estimating the Burden and Cost of the Collection**

**6.1 Estimating Respondent Burden**

Burden means the total time, effort, or financial resources expended by persons to generate, maintain, retain, 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 ways to comply with any previously applicable instructions and requirements; train personnel to be able to respond to a collection of information; and transmit or otherwise disclose the information. The burden estimate should be composed of (1) the total capital and start-up cost component annualized over its useful life; (2) the total operation, maintenance, and purchases of services component. Each component should be divided into burden borne directly by the respondent and any services that are contracted out.

The majority of ICR respondent burden and cost will be realized during the 2026-2029 renewal timeframe and beyond. Consequently, this non-EGU ICR is likely an overestimate of the burden occurring in the 2023-2025 timeframe. After the compliance period begins in 2026, the majority of ICR respondent burden including monitoring, testing, recordkeeping, and reporting requirements will be realized during the 2026-2029 renewal timeframe and beyond. The average annual burden to industry over the representative timeframe of 2023-2025 from minimal rule familiarization activities, work plan submittal and notification requirements is estimated to be 11,481 labor hours per year as shown in the Tables 1 – 3: Annual Respondent Burden and Cost – Pipeline Transportation of Natural Gas, Years 1 through 3, Tables 4 - 6: Annual Respondent Burden and Cost - Cement and Concrete Product Manufacturing, Years 1 through 3, Table 7-9: Annual Respondent Burden and Cost – Iron and Steel Mills and Ferroalloy Manufacturing, Years 1 through 3, Tables 10 - 12: Annual Respondent Burden and Cost – Glass and Glass Product Manufacturing, Years 1 through 3, Tables 13 - 15: Annual Respondent Burden and Cost – Basic Chemical Manufacturing, Petroleum and Coal Products Manufacturing, Metal Ore Mining, and Pulp, Paper, and Paperboard Mills, Years 1 through 3, and Tables 16 – 18: Annual Respondent Burden and Cost – Solid Waste Combustors and Incinerators, Years 1 through 3. These hours are based on Agency studies and background documents from the development of the final rule, Agency knowledge and experience with the Clean Air Act (CAA) section 110(a)(2)(D)(i)(I), and any comments received.

The ICR uses the most recently available wage values from the United States Department of Labor, Bureau of Labor Statistics, June 2022, “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. The burden costs are presented as representative of the years 2023-2025, while the industry labor rates used in estimated costs are for 2022. This inconsistency should be noted.

**6.2 Estimating Respondent Costs**

This ICR uses the following 2022 industry labor rates:

Managerial $161.21 ($76.96 + 110%)

Technical $127.68 ($60.80 + 110%)

Clerical $64.22 ($30.58 + 110%)

Under the final rule, non-EGU emissions-limit compliance requirements begin in 2026. By that time, the EPA estimates that approximately 3,328 existing respondents will be subject to these standards. It is estimated that additional respondent each year will become subject to these same standards and will increase at a rate of ten percent of the existing respondent universe. The ten percent rate of increase is based on the Portland Cement LLL MACT 2019 ICR.

Even though the compliance date is May 1, 2026, an assessment of industry responses represents data for the current 2023-2025 timeframe. The total number of responses over the current three-year ICR period is listed in the following table:

| **Total Responses by Industry Respondents** | |
| --- | --- |
| **Information Collection Activity** | **Total Responses** |
| Acquisition, Installation, and Utilization of  Technology and Systems | 48 |
| Familiarize with regulatory requirement | 3,724 |
| Time to train personnel | 23 |
| Initial Notification Form of Applicability | 193 |
| CPMS performance evaluation | 0 |
| NOx Performance Testing | 0 |
| Performance Evaluation of NOx CEMS | 0 |
| Preparation of Work Plans and Monitoring  Plans | 29 |
| Data Collection | 39,825 |
| Monitoring | 0 |
| Recordkeeping | 0 |
| Notification of Demonstration of CEMS | 0 |
| Notification of Performance Testing | 0 |
| Reports of Performance Testing, NOx  CEMS Performance Evaluation, and Excess  Emissions | 0 |
| Annual Reporting | 0 |

The number of total annual industry responses is 14,614.

The average annual respondent labor costs are, in total for all non-EGU sources, $1,421,000. Details regarding these estimates may be found below in the Tables 1 – 3: Annual Respondent Burden and Cost – Pipeline Transportation of Natural Gas, Years 1 through 3, Tables 4 - 6: Annual Respondent Burden and Cost - Cement and Concrete Product Manufacturing, Years 1 through 3, Table 7-9: Annual Respondent Burden and Cost – Iron and Steel Mills and Ferroalloy Manufacturing, Years 1 through 3, Tables 10 - 12: Annual Respondent Burden and Cost – Glass and Glass Product Manufacturing, Years 1 through 3, Tables 13 - 15: Annual Respondent Burden and Cost – Basic Chemical Manufacturing, Petroleum and Coal Products Manufacturing, Metal Ore Mining and Pulp, Paper, and Paperboard Mills, Years 1 through 3, and Tables 16 – 18: Annual Respondent Burden and Cost – Solid Waste Combustors and Incinerators, Years 1 through 3.

The type of industry costs associated with the information collection activities in the subject standards are both labor costs, which are addressed elsewhere in this ICR, and the costs associated with both continuous parametric monitoring and continuous monitoring. With very limited exceptions, continuous emissions monitoring is not required by this rulemaking for the non-EGU sources and therefore, most of the monitoring costs are associated with continuous parametric monitoring. Further, many of the large-boiler and MWC sources that may be subject to CEMS requirements under the rule already have CEMs installed and operate this monitoring equipment to comply with pre-existing CAA regulations. The capital/startup costs are one-time costs when a facility becomes subject to these regulations. The annual operation and maintenance costs are the ongoing costs to maintain the monitors and other costs such as photocopying and postage. The total capital/startup and operation and maintenance costs for this non-EGU ICR are $7,200,000. However, because compliance does not begin in earnest until 2026, we anticipate these costs will be spread over the 2023-2025 period. Thus, the average annual cost for capital/startup and operation and maintenance costs in total over the representative timeframe of 2023-2025 of the ICR are estimated to be $2,400,000.

The relevant capital costs for this ICR were annualized at a rate of 7.50 percent, (i.e., the annualized capital cost was calculated assuming money to purchase the capital equipment was borrowed at a 7.50 percent annual interest rate). This interest rate is the bank prime rate, a rate for borrowing charged to large businesses and financial institutions, as of February 2023 as set by the U.S. Federal Reserve Board. The cost of the loans was amortized over the life of the loans to repay the borrowed amount plus interest. The calculated result is the annualized capital cost reported.

**6.2.3 Annualized Capital Costs**

**6.3 Estimating Agency Burden and Cost**

The costs to the Agency are those costs associated with the following agency activities:

* Review and analysis of notifications and reports, including performance test reports, excess emissions reports, required to be submitted by industry;
* Observation of initial performance tests and repeat performance tests, if necessary;
* Audit of facility records; and
* Input, analyze, and maintain data in the Enforcement and Compliance History Online (ECHO) and the Integrated Compliance Information System (ICIS).

The EPA’s overall compliance and enforcement program includes such activities as the examination of records maintained by the respondents, periodic inspection of sources of emissions, and the publication and distribution of collected information.

ICR uses the most recently available wage values from the Office of Personnel Management (OPM), “2021 General Schedule,” which excludes locality rates of pay. The rates have been increased by 60 percent to account for the benefit packages available to Federal government employees.

This ICR uses the following Agency labor rates:

Managerial $69.04 (GS-13, Step 5, $43.15 + 60%)

Technical $51.23 (GS-12, Step 1, $32.02 + 60%)

Clerical $27.73 (GS-6, Step 3, $17.33 + 60%)

The average annual Agency estimate of hours is 367 and the average annual Agency labor costs are $18,323. Details regarding these estimates may be found below in the Tables 1 – 3: Annual Respondent Burden and Cost – Pipeline Transportation of Natural Gas, Years 1 through 3, Tables 4 - 6: Annual Respondent Burden and Cost - Cement and Concrete Product Manufacturing, Years 1 through 3, Table 7-9: Annual Respondent Burden and Cost – Iron and Steel Mills and Ferroalloy Manufacturing, Years 1 through 3, Tables 10 - 12: Annual Respondent Burden and Cost – Glass and Glass Product Manufacturing, Years 1 through 3, Tables 13 - 15: Annual Respondent Burden and Cost – Basic Chemical Manufacturing, Petroleum and Coal Products Manufacturing, Metal Ore Mining, and Pulp, Paper, and Paperboard Mills, Years 1 through 3, and Tables 16 – 18: Annual Respondent Burden and Cost – Solid Waste Combustors and Incinerators, Years 1 through 3.

For the purpose of estimating burden in this ICR, the respondent universe is determined as follows.

**6.4 Estimating the Respondent Universe**

**Industry.** The EPA is establishing nitrogen oxides (NOx) emissions limitations during the ozone season beginning in 2026 for certain non-EGU industry stationary sources in 20 states to eliminate significant contribution to downwind ozone air quality problems in other states. This final rule would resolve the interstate transport obligations of these 20 states under the “good neighbor provision” for the 2015 ozone NAAQS.

Over the representative 2023-2025 timeframe, approximately 902 facilities and 3,328 affected non-EGU emissions units (respondents) per year within these 20 states will be subject to the final rule. The respondent universe was determined through evaluating how many existing emissions units would be subject to the final rule. The analysis and identification of these sources is laid out in the memorandum titled, “Summary of Final Rule Applicability Criteria and Emissions Limits for Non-EGU Emissions Units, Assumed Control Technologies for Meeting the Final Emissions Limits, and Estimated Emissions Units, Emissions Reductions, and Costs.”

Because the rule also covers new sources, it is estimated that additional respondents each year will become subject to these same standards and will increase at a rate of ten percent of the existing respondent universe.

The EPA is not expecting any required respondent activities and associated costs to begin until later in 2023 after the final rule becomes effective. The final rule compliance period with emissions limits for non-EGU emissions sources begins in 2026 and would occur during the 2026-2029 time period of any subsequent ICR renewal. The majority of ICR respondent burden and cost will be realized during the 2026-2029 renewal timeframe and beyond. Consequently, this non-EGU ICR is likely an overestimate of the burden occurring in the 2023-2025 timeframe. The detailed bottom line burden hours and cost calculations for the respondents and the Agency are shown at the end of this document, in the Tables 1 – 3: Annual Respondent Burden and Cost – Pipeline Transportation of Natural Gas, Years 1 through 3, Tables 4 - 6: Annual Respondent Burden and Cost - Cement and Concrete Product Manufacturing, Years 1 through 3, Table 7-9: Annual Respondent Burden and Cost – Iron and Steel Mills and Ferroalloy Manufacturing, Years 1 through 3, Tables 10 - 12: Annual Respondent Burden and Cost – Glass and Glass Product Manufacturing, Years 1 through 3, Tables 13 - 15: Annual Respondent Burden and Cost – Basic Chemical Manufacturing, Petroleum and Coal Products Manufacturing, Metal Ore Mining, and Pulp, Paper, and Paperboard Mills, Years 1 through 3, and Tables 16 – 18: Annual Respondent Burden and Cost – Solid Waste Combustors and Incinerators, Years 1 through 3. A summary of burden hours and cost calculations for the respondents and the Agency are shown below.

**6.5 Bottom Line Burden and Cost**

(i) Respondent Tally

The total labor hours over the collection period, which is the representative timeframe of 2023-2025, are 34,443 hours and the average annual labor hours are 11,481 hours.

We assume that burdens for managerial tasks take 5% of the time required for technical tasks, because the typical tasks for managers are to review and approve reports. We assume clerical burdens take 10% of the time required for technical tasks, because the typical duties of clerical staff are to proofread the reports, make copies, and maintain records.

Furthermore, the annual public reporting and recordkeeping burden for this collection of information is estimated to average 0.8 hours per response.

The total estimated capital/startup and O&M costs to the regulated entities are $7,200,000 and the total average annual capital/startup and O&M cost spread over 2023-2025 are $2,400,000.

(ii) The Agency Tally

The average annual Agency burden and cost over the representative timeframe of 2023-2025 is estimated to be 367 labor hours at an average annual cost of $18,000.

We assume that burdens for managerial tasks take 5% of the time required for technical tasks, because the typical tasks for managers are to review and approve reports. We assume clerical burdens take 10% of the time required for technical tasks, because the typical duties of clerical staff are to proofread the reports, make copies, and maintain records.

This section does not apply because this is a new burden. The new burden estimates for this ICR reflects the new activities required of certain non-EGU industry sectors. It also includes estimates of administrative burden on the EPA in implementing the rule. The new industry activities include monitoring, calibrating, recordkeeping, reporting, and testing activities required under the final rule, entitled “Federal Good Neighbor Plan for the 2015 Ozone National Ambient Air Quality Standards.”

**6.6 Reasons for Change in Burden**

The annual public reporting and recordkeeping burden for this collection of information is estimated to be 3 average hours per respondent. Burden means the total time, effort, or financial resources expended by persons to generate, maintain, retain, 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; adjusting the existing ways to comply with any previously applicable instructions and requirements; training personnel to be able to respond to a collection of information; searching data sources; completing and reviewing the collection of information; and transmitting or otherwise disclosing the information. 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.

**6.7 Burden Statement**

The EPA received public comments on the proposed rule from April 6, 2022, through June 21, 2022. The agency responded to public comments in the document, “Federal Good Neighbor Plan for the 2015 Ozone National Ambient Air Quality Standards, Response to Public Comments on Proposed Rule,” which is included in the docket for this rulemaking.

**PART B**

This section is not applicable because statistical methods are not used in data collection associated with the implementation rule.

**Table 1: Annual Respondent Burden and Cost – Pipeline Transportation of Natural Gas, Year 1**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Burden Item** | (A) Hours per Occurrence | (B) Occurrences/ Respondent/ Year | (C) Hours/ Respondent/ Year  (A x B) | (D) Respondents/ Yeara | (E) Technical Hours/Year  (C x D) | (F) Managerial Hours/Year  (E x 0.05) | (G)  Clerical Hours/Year  (E x 0.10) | (H) Cost/ Yearb |
| 1. APPLICATIONS | NA |  |  |  |  |  |  |  |
| 2. SURVEY AND STUDIES | NA |  |  |  |  |  |  |  |
| 3.ACQUISITION, INSTALLATION, AND UTILIZATION OF TECHNOLOGY AND SYSTEMS | 24 | 1 | 24 | 23.91 | 573.96 | 28.70 | 57.40 | $81,606 |
| 4. REPORT REQUIREMENTS |  |  |  |  |  |  |  |  |
| REQUEST FOR CASE-BY-CASE EMISSION LIMITS - Per 52.40(e); (based on BACT analysis of 2020 NSR ICR) | 156 | 1 | 156 | 28.47 | 4441.32 | 222.066 | 444.132 | $631,478 |
| A. Familiarize with regulatory requirement | 1 | 1 | 1 | 2847 | 2847 | 142.35 | 284.7 | $404,794 |
| B. Required Activities |  |  |  |  |  |  |  |  |
| *New Sources - Annual CPMS Performance Evaluation* c |  |  |  |  |  |  |  |  |
| Annual CPMS Performance Evaluation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 |
| Repeat Annual CPMS Performance Evaluation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 |
| *Existing Sources - Annual CPMS Performance Evaluation and Performance Testing* d |  |  |  |  |  |  |  |  |
| Annual CPMS Performance Evaluation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 |
| Repeat Annual CPMS Performance Evaluation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 |
| Non EPA-Certified Engine NOx Performance Testinggh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 |
| Repeat Non EPA-Certified Engine NOx Performance Testinggh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 |
| *New and Existing Sources - Monitoring* e |  |  |  |  |  |  |  |  |
| Daily Calibration Drift Tests - NOx CEMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 |
| C. Create Information (Included in 4B) |  |  |  |  |  |  |  |  |
| D. Gather Existing Information (Included in 4E) |  |  |  |  |  |  |  |  |
| E. Write Report |  |  |  |  |  |  |  |  |
| *New Sources* |  |  |  |  |  |  |  |  |
| Notification of Demonstration of CEMS | 0 | 0 | 2 | 0 | 0 | 0 | 0 | $0.00 |
| Notification of Initial Performance Test | 0 | 0 | 2 | 0 | 0 | 0 | 0 | $0.00 |
| Report of Performance Test | 0 | 0 | 2 | 0 | 0 | 0 | 0 | $0.00 |
| Annual Report Submitted to Administrator of Compliance Statement, SubSection 52.41(d) performance test | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | $0 |
| *Existing Sources* |  |  |  |  |  |  |  |  |
| Notification of Demonstration of CEMS | 0 | 0 | 2 | 0 | 0 | 0 | 0 | $0.00 |
| Notification of Non EPA-Certified Engine Performance Test | 0 | 0 | 2 | 0.00 | 0.00 | 0.00 | 0.00 | $0.00 |
| Report of Non EPA-Certified Engine Performance Test Results via CEDRI or analogous electronic reporting | 0 | 0 | 2 | 0.00 | 0.00 | 0.00 | 0.00 | $0.00 |
| Annual Report submitted via CEDRI or analogous electronic reporting | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0 |
| ***Subtotal for Reporting Requirements*** |  |  |  |  | ***9,042*** |  |  | ***$1,117,879*** |
| 5. RECORDKEEPING REQUIREMENTS |  |  |  |  |  |  |  |  |
| A. Familiarize with regulatory requirement |  |  |  |  |  |  |  |  |
| B. Plan Activities |  |  |  |  |  |  |  |  |
| C. Implement Activities |  |  |  |  |  |  |  |  |
| D. Record Data | NA |  |  |  |  |  |  |  |
| E. Time to Transmit or Disclose Information |  |  |  |  |  |  |  |  |
| *Existing Sources* |  |  |  |  |  |  |  |  |
| Data Collection | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 |
| Create and Store Engine Maintenance Plan | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 |
| Records of Hours of Operation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 |
| Records of Engine Maintenance Conducted | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 |
| *Engines Anticipated with SCR or NSCR* |  |  |  |  |  |  |  |  |
| Daily monitoring of catalyst inlet temperature | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 |
| Monthly monitoring of pressure drop across catalyst | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 |
| *Engines Anticipated with no SCR or NSCR* |  |  |  |  |  |  |  |  |
| Prepare CPMS site-specific monitoring plan to address monitoring system design, data collection, and QA/QC. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 |
| Records of Annual CPMS Performance Evaluation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 |
| Collect and record the CPMS monitoring parameters. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 |
| *New Sources* |  |  |  |  |  |  |  |  |
| Data Collection | 0.5 | 1 | 0.5 | 2847 | 1,424 | 71.18 | 142.35 | $202,397 |
| Create and Store Maintenance Plan | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0 |
| F. Time to Train Personnel of 1st year Existing Sources | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0 |
| G. Time for Audits | NA |  |  |  |  |  |  |  |
| ***Subtotal for Recordkeeping Requirements*** |  |  |  |  | ***1,637*** |  |  | ***$202,397*** |
| **Total Labor Burden and Cost (rounded) f** |  |  |  |  | **10,700** | | | **$1,320,000** |
| **Total Capital and O&M Cost (rounded) f** |  |  |  |  |  |  |  | **$0** |
| **Grand TOTAL (rounded) f** |  |  |  |  |  |  |  | **$1,300,000** |
|  |  |  |  |  |  |  |  |  |
| a We have assumed that there are approximately 2847 RICE units and that 10% of the existing units will have new construction/reconstruction. | | | | | | | | |
| b This ICR uses the following labor rates: $161.62 per hour for Executive, Administrative, and Managerial labor; $127.68 per hour for Technical labor, and $64.22 per hour for Clerical labor. These rates are from the United States Department of Labor, Bureau of Labor Statistics, June 2022, “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. Archived report releases can be accessed from https://www.bls.gov/bls/news-release/ecec.htm#2021; from homepage, select Economic Releases, Archived News Releases, Employer Costs for Employee Compensation, Select a past year, Select a published report. | | | | | | | | |
| c New RICE CPMS performance evaluation conducted annually. We have assumed that 5 percent of respondents would repeat annual CPMS performance evaluation due to failure. | | | | | | | | |
| d We have assumed that 5 percent of respondents would repeat annual CPMS performance evaluation due to failure. | | | | | | | | |
| e Calibration drift checks on the air flow sensor on the NOx CEMS are performed daily. | | | | | | | | |
| f Totals have been rounded to 3 significant figures. Figures may not add exactly due to rounding. | | | | | | | | |
| g "Hours per Occurrence" based on RICE MACT uploaded to regulations.gov on February 25, 2020. | | | | | | | | |
| h RICE engines required to conduct initial and annual NOx performance testing is based upon an estimated count of non-EPA-Certified Engines per 40 CFR part 60, subpart JJJJ. An estimated count of EPA-Certified Engines of 1,594 (56% of affected engines) was determined from 2019 NEI data using the criteria of certification requirements referenced in 40 CFR part 60, subpart JJJJ, § 60.4243(a). An estimated count of non-certified engines of 1,253 (44% of affected engines) was based upon the stated Unit Status Year data available from 2019 NEI dataset for units expecting to be controlled. The estimated 1,253 non-certified engines was found to be in alignment with EPA's estimated number of engines (2,100) which were determined to be below the 21 tpy threshold of the facility-wide averaging plan's engine analysis as described in EPA's final non-EGU TSD. This estimate is expected for engines subject to NSPS subpart JJJJ operating at a lower g/hp-hr emissions thresholds. | | | | | | | | |

**Table 2: Annual Respondent Burden and Cost – Pipeline Transportation of Natural Gas, Year 2**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Burden Item** | (A) Hours per Occurrence | (B) Occurrences/ Respondent/ Year | (C) Hours/ Respondent/ Year  (A x B) | (D) Respondents/ Yeara | (E) Technical Hours/Year  (C x D) | (F) Managerial Hours/Year  (E x 0.05) | (G)  Clerical Hours/Year  (E x 0.10) | (H) Cost/ Yearb |
| 1. APPLICATIONS | NA |  |  |  |  |  |  |  |
| 2. SURVEY AND STUDIES | NA |  |  |  |  |  |  |  |
| 3.ACQUISITION, INSTALLATION, AND UTILIZATION OF TECHNOLOGY AND SYSTEMS | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | $0 |
| 4. REPORT REQUIREMENTS |  |  |  |  |  |  |  |  |
| A. Familiarize with regulatory requirement | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 |
| B. Required Activities |  |  |  |  |  |  |  |  |
| *New Sources - Annual CPMS Performance Evaluation* c |  |  |  |  |  |  |  |  |
| Annual CPMS Performance Evaluation | 0 | 0 | 0 | 0.00 | 0 | 0.00 | 0.00 | $0.00 |
| Repeat Annual CPMS Performance Evaluation | 0 | 0 | 0 | 0.00 | 0 | 0.00 | 0.00 | $0.00 |
| *Existing Sources - Annual CPMS Performance Evaluation* d |  |  |  |  |  |  |  |  |
| Annual CPMS Performance Evaluation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 |
| Repeat Annual CPMS Performance Evaluation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 |
| Non EPA-Certified Engine NOx Performance Testinggh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 |
| Repeat Non EPA-Certified Engine NOx Performance Testinggh | 0 | 0 | 0 | 0.00 | 0 | 0 | 0 | $0.00 |
| *New and Existing Sources - Monitoring* e |  |  |  |  |  |  |  |  |
| Daily Calibration Drift Tests - NOx CEMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 |
| C. Create Information (Included in 4B) |  |  |  |  |  |  |  |  |
| D. Gather Existing Information (Included in 4E) |  |  |  |  |  |  |  |  |
| E. Write Report |  |  |  |  |  |  |  |  |
| *New Sources* |  |  |  |  |  |  |  |  |
| Notification of Demonstration of CEMS | 0 | 0 | 2 | 0 | 0 | 0 | 0 | $0.00 |
| Notification of Initial Performance Test | 0 | 0 | 2 | 0 | 0 | 0 | 0 | $0.00 |
| Report of Performance Test | 0 | 0 | 2 | 0 | 0 | 0 | 0 | $0.00 |
| Annual Report Submitted to Administrator of Compliance Statement, SubSection 52.41(d) performance test | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | $0 |
| *Existing Sources* |  |  |  |  |  |  |  |  |
| Notification of Demonstration of CEMS | 0 | 0 | 2 | 0 | 0 | 0 | 0 | $0.00 |
| Notification of Non EPA-Certified Engine Performance Test | 0 | 0 | 2 | 0.00 | 0.00 | 0.00 | 0.00 | $0.00 |
| Report of Non EPA-Certified Engine Performance Test Results via CEDRI or analogous electronic reporting | 0 | 0 | 2 | 0.00 | 0.00 | 0.00 | 0.00 | $0.00 |
| Annual Report submitted via CEDRI or analogous electronic reporting | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0 |
| ***Subtotal for Reporting Requirements*** |  |  |  |  | ***0*** |  |  | ***$0*** |
| 5. RECORDKEEPING REQUIREMENTS |  |  |  |  |  |  |  |  |
| A. Familiarize with regulatory requirement |  |  |  |  |  |  |  |  |
| B. Plan Activities |  |  |  |  |  |  |  |  |
| C. Implement Activities |  |  |  |  |  |  |  |  |
| D. Record Data | NA |  |  |  |  |  |  |  |
| E. Time to Transmit or Disclose Information |  |  |  |  |  |  |  |  |
| *Existing Sources* |  |  |  |  |  |  |  |  |
| Data Collection | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 |
| Create and Store Engine Maintenance Plan | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 |
| Records of Hours of Operation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 |
| Records of Engine Maintenance Conducted | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 |
| *Engines Anticipated with SCR or NSCR* |  |  |  |  |  |  |  |  |
| Daily monitoring of catalyst inlet temperature | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 |
| Monthly monitoring of pressure drop across catalyst | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 |
| *Engines Anticipated with no SCR or NSCR* |  |  |  |  |  |  |  |  |
| Prepare CPMS site-specific monitoring plan to address monitoring system design, data collection, and QA/QC. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 |
| Records of Annual CPMS Performance Evaluation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 |
| Collect and record the CPMS monitoring parameters | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 |
| *New Sources* |  |  |  |  |  |  |  |  |
| Data Collection | 0 | 0 | 0 | 0.00 | 0 | 0 | 0 | $0 |
| Create and Store Maintenance Plan | 0 | 0 | 0 | 0.00 | 0 | 0 | 0 | $0 |
| F. Time to Train Personnel of New Sources | 0 | 0 | 0 | 0.00 | 0 | 0.000 | 0.000 | $0 |
| G. Time for Audits | NA |  |  |  |  |  |  |  |
| ***Subtotal for Recordkeeping Requirements*** |  |  |  |  | ***0*** |  |  | ***$0*** |
| **Total Labor Burden and Cost (rounded) f** |  |  |  |  | **0** | | | **$0** |
| **Total Capital and O&M Cost (rounded) f** |  |  |  |  |  |  |  | **$0** |
| **Grand TOTAL (rounded) f** |  |  |  |  |  |  |  | **$0** |
|  |  |  |  |  |  |  |  |  |
| a We have assumed that there are approximately 2847 RICE units and that 10% of the existing units will have new construction/reconstruction. | | | | | | | | |
| b This ICR uses the following labor rates: $161.62 per hour for Executive, Administrative, and Managerial labor; $127.68 per hour for Technical labor, and $64.22 per hour for Clerical labor. These rates are from the United States Department of Labor, Bureau of Labor Statistics, June 2022, “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. Archived report releases can be accessed from https://www.bls.gov/bls/news-release/ecec.htm#2021; from homepage, select Economic Releases, Archived News Releases, Employer Costs for Employee Compensation, Select a past year, Select a published report. | | | | | | | | |
| c New RICE CPMS performance evaluation conducted annually. We have assumed that 5 percent of respondents would repeat annual CPMS performance evaluation due to failure. | | | | | | | | |
| d We have assumed that 5 percent of respondents would repeat annual CPMS performance evaluation due to failure. | | | | | | | | |
| e Calibration drift checks on the air flow sensor on the NOx CEMS are performed daily. | | | | | | | | |
| f Totals have been rounded to 3 significant figures. Figures may not add exactly due to rounding. | | | | | | | | |
| g "Hours per Occurrence" based on RICE MACT uploaded to regulations.gov on February 25, 2020. | | | | | | | | |
| h RICE engines required to conduct initial and annual NOx performance testing is based upon an estimated count of non-EPA-Certified Engines per 40 CFR part 60, subpart JJJJ. An estimated count of EPA-Certified Engines of 1,594 (56% of affected engines) was determined from 2019 NEI data using the criteria of certification requirements referenced in 40 CFR part 60, subpart JJJJ, § 60.4243(a). An estimated count of non-certified engines of 1,253 (44% of affected engines) was based upon the stated Unit Status Year data available from 2019 NEI dataset for units expecting to be controlled. The estimated 1,253 non-certified engines was found to be in alignment with EPA's estimated number of engines (2,100) which were determined to be below the 21 tpy threshold of the facility-wide averaging plan's engine analysis as described in EPA's final non-EGU TSD. This estimate is expected for engines subject to NSPS subpart JJJJ operating at a lower g/hp-hr emissions thresholds. | | | | | | | | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Table 3: Annual Respondent Burden and Cost – Pipeline Transportation of Natural Gas, Year 3**   |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **Burden Item** | (A) Hours per Occurrence | (B) Occurrences/ Respondent/ Year | (C) Hours/ Respondent/ Year  (A x B) | (D) Respondents/ Yeara | (E) Technical Hours/Year  (C x D) | (F) Managerial Hours/Year  (E x 0.05) | (G)  Clerical Hours/Year  (E x 0.10) | (H) Cost/ Yearb | | 1. APPLICATIONS | NA |  |  |  |  |  |  |  | | 2. SURVEY AND STUDIES | NA |  |  |  |  |  |  |  | | 3.ACQUISITION, INSTALLATION, AND UTILIZATION OF TECHNOLOGY AND SYSTEMS | 24 | 1 | 24 | 23.91 | 573.96 | 28.70 | 57.40 | $81,606 | | 4. REPORT REQUIREMENTS |  |  |  |  |  |  |  |  | | REQUEST FOR EXTENSION OF COMPLIANCE - Per 52.40(d); (based on BACT analysis of 2020 NSR ICR) | 156 | 1 | 156 | 28.47 | 4441.32 | 222.066 | 444.132 | $631,478 | | A. Familiarize with regulatory requirement | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | B. Required Activities |  |  |  |  |  |  |  |  | | *New Sources - Annual CPMS Performance Evaluation* c |  |  |  |  |  |  |  |  | | Annual CPMS Performance Evaluation | 0 | 0 | 0 | 0.00 | 0 | 0.00 | 0.00 | $0.00 | | Repeat Annual CPMS Performance Evaluation | 0 | 0 | 0 | 0.00 | 0 | 0.00 | 0.00 | $0.00 | | *Existing Sources - Annual CPMS Performance Evaluation* d |  |  |  |  |  |  |  |  | | Annual CPMS Performance Evaluation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Repeat Annual CPMS Performance Evaluation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Non EPA-Certified Engine NOx Performance Testinggh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Repeat Non EPA-Certified Engine NOx Performance Testinggh | 0 | 0 | 0 | 0.00 | 0 | 0 | 0 | $0.00 | | *New and Existing Sources - Monitoring* e |  |  |  |  |  |  |  |  | | Daily Calibration Drift Tests - NOx CEMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | C. Create Information (Included in 4B) |  |  |  |  |  |  |  |  | | D. Gather Existing Information (Included in 4E) |  |  |  |  |  |  |  |  | | E. Write Report |  |  |  |  |  |  |  |  | | *New Sources* |  |  |  |  |  |  |  |  | | Notification of Demonstration of CEMS | 0 | 0 | 2 | 0 | 0 | 0 | 0 | $0.00 | | Notification of Initial Performance Test | 0 | 0 | 2 | 0 | 0 | 0 | 0 | $0.00 | | Report of Performance Test | 0 | 0 | 2 | 0 | 0 | 0 | 0 | $0.00 | | Annual Report Submitted to Administrator of Compliance Statement, SubSection 52.41(d) performance test | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | $0 | | *Existing Sources* |  |  |  |  |  |  |  |  | | Notification of Demonstration of CPMS | 0 | 0 | 2 | 0 | 0 | 0 | 0 | $0.00 | | Notification of Non EPA-Certified Engine Performance Test | 0 | 0 | 2 | 0.00 | 0.00 | 0.00 | 0.00 | $0.00 | | Report of Non EPA-Certified Engine Performance Test Results via CEDRI or analogous electronic reporting | 0 | 0 | 2 | 0.0 | 0.00 | 0.00 | 0.00 | $0.00 | | Annual Report submitted via CEDRI or analogous electronic reporting | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0 | | ***Subtotal for Reporting Requirements*** |  |  |  |  | ***5,768*** |  |  | ***$713,085*** | | 5. RECORDKEEPING REQUIREMENTS |  |  |  |  |  |  |  |  | | A. Familiarize with regulatory requirement |  |  |  |  |  |  |  |  | | B. Plan Activities |  |  |  |  |  |  |  |  | | C. Implement Activities |  |  |  |  |  |  |  |  | | D. Record Data | NA |  |  |  |  |  |  |  | | E. Time to Transmit or Disclose Information |  |  |  |  |  |  |  |  | | *Existing Sources* |  |  |  |  |  |  |  |  | | Data Collection | 0.1 | 12 | 1.2 | 2847 | 3,416 | 170.82 | 341.64 | $485,753 | | Create and Store Engine Maintenance Plan | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Records of Hours of Operation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Records of Engine Maintenance Conducted | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | *Engines Anticipated with SCR or NSCR* |  |  |  |  |  |  |  |  | | Daily monitoring of catalyst inlet temperature | 0 | 0 | 0.00 | 0 | 0 | 0.00 | 0.00 | $0.00 | | Monthly monitoring of pressure drop across catalyst | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | *Engines Anticipated with no SCR or NSCR* |  |  |  |  |  |  |  |  | | Prepare CPMS site-specific monitoring plan to address monitoring system design, data collection, and QA/QC. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Records of Annual CPMS Performance Evaluation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Collect and record the CPMS monitoring parameters | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | *New Sources* |  |  |  |  |  |  |  |  | | Data Collection | 1.5 | 1 | 1.5 | 23.91 | 36 | 1.79361 | 3.58722 | $5,100 | | Create and Store Maintenance Plan | 0 | 0 | 0 | 0.00 | 0 | 0 | 0 | $0 | | F. Time to Train Personnel of New Sources | 16 | 1 | 16 | 23.91 | 383 | 19.13 | 38.26 | $54,404 | | G. Time for Audits | NA |  |  |  |  |  |  |  | | ***Subtotal for Recordkeeping Requirements*** |  |  |  |  | ***4,410*** |  |  | ***$545,257*** | | **Total Labor Burden and Cost (rounded) f** |  |  |  |  | **10,200** | | | **$1,260,000** | | **Total Capital and O&M Cost (rounded) f** |  |  |  |  |  |  |  | **$0** | | **Grand TOTAL (rounded) f** |  |  |  |  |  |  |  | **$1,300,000** | |  |  |  |  |  |  |  |  |  | | a We have assumed that there are approximately 2847 RICE units and that 10% of the existing units will have new construction/reconstruction. | | | | | | | | | | b This ICR uses the following labor rates: $161.62 per hour for Executive, Administrative, and Managerial labor; $127.68 per hour for Technical labor, and $64.22 per hour for Clerical labor. These rates are from the United States Department of Labor, Bureau of Labor Statistics, June 2022, “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. Archived report releases can be accessed from https://www.bls.gov/bls/news-release/ecec.htm#2021; from homepage, select Economic Releases, Archived News Releases, Employer Costs for Employee Compensation, Select a past year, Select a published report. | | | | | | | | | | c New RICE CPMS performance evaluation conducted annually. We have assumed that 5 percent of respondents would repeat annual CPMS performance evaluation due to failure. | | | | | | | | | | d We have assumed that 5 percent of respondents would repeat annual CPMS performance evaluation due to failure. | | | | | | | | | | e Calibration drift checks on the air flow sensor on the NOx CEMS are performed daily. | | | | | | | | | | f Totals have been rounded to 3 significant figures. Figures may not add exactly due to rounding. | | | | | | | | | | g "Hours per Occurrence" based on RICE MACT uploaded to regulations.gov on February 25, 2020. | | | | | | | | | | h RICE engines required to conduct initial and annual NOx performance testing is based upon an estimated count of non-EPA-Certified Engines per 40 CFR part 60, subpart JJJJ. An estimated count of EPA-Certified Engines of 1,594 (56% of affected engines) was determined from 2019 NEI data using the criteria of certification requirements referenced in 40 CFR part 60, subpart JJJJ, § 60.4243(a). An estimated count of non-certified engines of 1,253 (44% of affected engines) was based upon the stated Unit Status Year data available from 2019 NEI dataset for units expecting to be controlled. The estimated 1,253 non-certified engines was found to be in alignment with EPA's estimated number of engines (2,100) which were determined to be below the 21 tpy threshold of the facility-wide averaging plan's engine analysis as described in EPA's final non-EGU TSD. This estimate is expected for engines subject to NSPS subpart JJJJ operating at a lower g/hp-hr emissions thresholds. | | | | | | | | | |
| **Table 4: Annual Respondent Burden and Cost – Cement and Concrete Manufacturing, Year 1**   |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **Burden Item** | (A) Hours per Occurrence | (B) Occurrences/ Respondent/ Year | (C) Hours/ Respondent/ Year  (A x B) | (D) Respondents/ Yeara | (E) Technical Hours/Year  (C x D) | (F) Managerial Hours/Year  (E x 0.05) | (G)  Clerical Hours/Year  (E x 0.10) | (H) Cost/ Yearb | | 1. APPLICATIONS | NA |  |  |  |  |  |  |  | | 2. SURVEY AND STUDIES | NA |  |  |  |  |  |  |  | | 3.ACQUISITION, INSTALLATION, AND UTILIZATION OF TECHNOLOGY AND SYSTEMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0 | | 4. REPORT REQUIREMENTS |  |  |  |  |  |  |  |  | | REQUEST FOR CASE-BY-CASE EMISSION LIMITS - Per 52.40(e); (based on BACT analysis of 2020 NSR ICR) | 156 | 1 | 156 | 0.79 | 123.24 | 6.162 | 12.324 | $17,523 | | A. Familiarize with regulatory requirement | 10 | 1 | 10 | 79 | 790 | 39.5 | 79 | $112,324 | | Initial Notification Form of Applicability | 0.5 | 1 | 0.5 | 79 | 39.5 | 1.975 | 3.95 | $5,616 | | B. Required Activities |  |  |  |  |  |  |  |  | | *New Sources - Testing* c |  |  |  |  |  |  |  |  | | Initial NOx Performance Test (kiln) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Repeat NOx Performance Test | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Initial Performance Evaluation of CPMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Repeat Performance Evaluation of CPMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | *Existing Sources - Initial Testing* d |  |  |  |  |  |  |  |  | | Initial Performance Evaluation of CPMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Repeat Performance Evaluation of CPMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | *Existing Sources - Annual Testing* d |  |  |  |  |  |  |  |  | | Annual NOx Performance Test (kiln) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Repeat NOx Performance Test | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | *New and Existing Sources - Monitoring* e |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  | | C. Create Information (Included in 4B) |  |  |  |  |  |  |  |  | | D. Gather Existing Information (Included in 4E) |  |  |  |  |  |  |  |  | | E. Write Report |  |  |  |  |  |  |  |  | | *New Sources- Reporting* |  |  |  |  |  |  |  |  | | Notification of Initial Performance Test | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Report of Performance Test Results via CEDRI or analogous electronic reporting | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Notification of Demonstration of CPMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Notification of Initial Performance Evaluation of CPMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Report of Performance Evaluation of CPMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Annual Report via CEDRI or analogous electronic reporting | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | *Existing Sources-Reporting* |  |  |  |  |  |  |  |  | | Notification of Annual Performance Test | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Report of Annual Performance Test Results and Annual Report combined via CEDRI or analogous electronic reporting | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Notification of Demonstration of CPMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Notification of Initial Performance Evaluation of CPMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Report of Initial Performance Evaluation of CPMS Test Results | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | |  |  |  |  |  |  |  |  |  | | Annual Report submitted via CEDRI or analogous electronic reporting | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | ***Subtotal for Reporting Requirements*** |  |  |  |  | ***1,096*** |  |  | ***$135,463*** | | 5. RECORDKEEPING REQUIREMENTS |  |  |  |  |  |  |  |  | | A. Familiarize with regulatory requirement |  |  |  |  |  |  |  |  | | B. Plan Activities |  |  |  |  |  |  |  |  | | C. Implement Activities |  |  |  |  |  |  |  |  | | D. Record Data | NA |  |  |  |  |  |  |  | | E. Time to Transmit or Disclose Information |  |  |  |  |  |  |  |  | | *Existing Sources* |  |  |  |  |  |  |  |  | | Data Collection | 0.1 | 1 | 0.1 | 79 | 8 | 0.395 | 0.79 | $1,123 | | Records of Performance Tests | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Recordkeeping of NOx emission rate, operating days data, CPMS data | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | *New Sources* |  |  |  |  |  |  |  |  | | Data Collection | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0 | | Records of Performance Tests | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0 | | CPMS Recordkeeping | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0 | | F. Time to Train Personnel | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0 | | G. Time for Audits | NA |  |  |  |  |  |  |  | | ***Subtotal for Recordkeeping Requirements*** |  |  |  |  | ***9*** |  |  | ***$1,123*** | | **Total Labor Burden and Cost (rounded) e** |  |  |  |  | **1,100** | | | **$140,000** | | **Total Capital and O&M Cost (rounded) e** |  |  |  |  |  |  |  |  | | **Grand TOTAL (rounded) e** |  |  |  |  |  |  |  | **$100,000** | |  |  |  |  |  |  |  |  |  | | a We have assumed that there are approximately 79 affected kilns and that 10% of the existing units will have new construction/reconstruction. | | | | | | | | | | b This ICR uses the following labor rates: $161.62 per hour for Executive, Administrative, and Managerial labor; $127.68 per hour for Technical labor, and $64.22 per hour for Clerical labor. These rates are from the United States Department of Labor, Bureau of Labor Statistics, June 2022, “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. Archived report releases can be accessed from https://www.bls.gov/bls/news-release/ecec.htm#2021; from homepage, select Economic Releases, Archived News Releases, Employer Costs for Employee Compensation, Select a past year, Select a published report. | | | | | | | | | | c New kilns test for NOx. We have assumed that 5 percent of respondents would repeat initial performance test due to failure. | | | | | | | | | | d The rule requires existing kilns re-test annually for NOx. | | | | | | | | | | e Totals have been rounded to 3 significant figures. Figures may not add exactly due to rounding. | | | | | | | | |   **Table 5: Annual Respondent Burden and Cost – Cement and Concrete Manufacturing, Year 2**   |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **Burden Item** | (A) Hours per Occurrence | (B) Occurrences/ Respondent/ Year | (C) Hours/ Respondent/ Year  (A x B) | (D) Respondents/ Yeara | (E) Technical Hours/Year  (C x D) | (F) Managerial Hours/Year  (E x 0.05) | (G)  Clerical Hours/Year  (E x 0.10) | (H) Cost/ Yearb | | 1. APPLICATIONS | NA |  |  |  |  |  |  |  | | 2. SURVEY AND STUDIES | NA |  |  |  |  |  |  |  | | 3.ACQUISITION, INSTALLATION, AND UTILIZATION OF TECHNOLOGY AND SYSTEMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0 | | 4. REPORT REQUIREMENTS |  |  |  |  |  |  |  |  | | A. Familiarize with regulatory requirement | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Initial Notification Form of Applicability | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | B. Required Activities |  |  |  |  |  |  |  |  | | *New Sources - Testing* c |  |  |  |  |  |  |  |  | | Initial NOx Performance Test (kiln) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Repeat NOx Performance Test | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Initial Performance Evaluation of CPMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Repeat Performance Evaluation of CPMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | *Existing Sources - Initial Testing* d |  |  |  |  |  |  |  |  | | Initial Performance Evaluation of CPMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Repeat Performance Evaluation of CPMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | *Existing Sources - Annual Testing* d |  |  |  |  |  |  |  |  | | Annual NOx Performance Test (kiln) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Repeat NOx Performance Test | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | *New and Existing Sources - Monitoring* e |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  | | C. Create Information (Included in 4B) |  |  |  |  |  |  |  |  | | D. Gather Existing Information (Included in 4E) |  |  |  |  |  |  |  |  | | E. Write Report |  |  |  |  |  |  |  |  | | *New Sources- Reporting* |  |  |  |  |  |  |  |  | | Notification of Initial Performance Test | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Report of Performance Test Results via CEDRI or analogous electronic reporting | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Notification of Demonstration of CPMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Notification of Initial Performance Evaluation of CPMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Report of Performance Evaluation of CPMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Annual Report submitted via CEDRI or analogous electronic reporting | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | *Existing Sources-Reporting* |  |  |  |  |  |  |  |  | | Notification of annual Performance Test | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Report of Annual Performance Test Results via CEDRI or analogous electronic reporting | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Notification of Demonstration of CPMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Notification of Initial Performance Evaluation of CPMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Report of Initial Performance Evaluation of CPMS Test Results | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | |  |  |  |  |  |  |  |  |  | | Report of Annual Performance Test Results and Annual Report combined via CEDRI or analogous electronic reporting | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | ***Subtotal for Reporting Requirements*** |  |  |  |  | ***0*** |  |  | ***$0*** | | 5. RECORDKEEPING REQUIREMENTS |  |  |  |  |  |  |  |  | | A. Familiarize with regulatory requirement |  |  |  |  |  |  |  |  | | B. Plan Activities |  |  |  |  |  |  |  |  | | C. Implement Activities |  |  |  |  |  |  |  |  | | D. Record Data | NA |  |  |  |  |  |  |  | | E. Time to Transmit or Disclose Information |  |  |  |  |  |  |  |  | | *Existing Sources* |  |  |  |  |  |  |  |  | | Data Collection | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Records of Performance Tests | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Recordkeeping of NOx emission rate, operating days data, CPMS data | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | *New Sources* |  |  |  |  |  |  |  |  | | Data Collection | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0 | | Records of Performance Tests | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0 | | CPMS Recordkeeping | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0 | | F. Time to Train Personnel | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0 | | G. Time for Audits | NA |  |  |  |  |  |  |  | | ***Subtotal for Recordkeeping Requirements*** |  |  |  |  | ***0*** |  |  | ***$0*** | | **Total Labor Burden and Cost (rounded) e** |  |  |  |  | **0** | | | **$0** | | **Total Capital and O&M Cost (rounded) e** |  |  |  |  |  |  |  |  | | **Grand TOTAL (rounded) e** |  |  |  |  |  |  |  | **$0** | |  |  |  |  |  |  |  |  |  | | a We have assumed that there are approximately 79 affected kilns and that 10% of the existing units will have new construction/reconstruction. | | | | | | | | | | b This ICR uses the following labor rates: $161.62 per hour for Executive, Administrative, and Managerial labor; $127.68 per hour for Technical labor, and $64.22 per hour for Clerical labor. These rates are from the United States Department of Labor, Bureau of Labor Statistics, June 2022, “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. Archived report releases can be accessed from https://www.bls.gov/bls/news-release/ecec.htm#2021; from homepage, select Economic Releases, Archived News Releases, Employer Costs for Employee Compensation, Select a past year, Select a published report. | | | | | | | | | | c New kilns test for NOx. We have assumed that 5 percent of respondents would repeat initial performance test due to failure. | | | | | | | | | | d The rule requires existing kilns re-test annually for NOx. | | | | | | | | | | e Totals have been rounded to 3 significant figures. Figures may not add exactly due to rounding. | | | | | | | | |   **Table 6: Annual Respondent Burden and Cost – Cement and Concrete Manufacturing, Year 3**   |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **Burden Item** | (A) Hours per Occurrence | (B) Occurrences/ Respondent/ Year | (C) Hours/ Respondent/ Year  (A x B) | (D) Respondents/ Yeara | (E) Technical Hours/Year  (C x D) | (F) Managerial Hours/Year  (E x 0.05) | (G)  Clerical Hours/Year  (E x 0.10) | (H) Cost/ Yearb | | 1. APPLICATIONS | NA |  |  |  |  |  |  |  | | 2. SURVEY AND STUDIES | NA |  |  |  |  |  |  |  | | 3.ACQUISITION, INSTALLATION, AND UTILIZATION OF TECHNOLOGY AND SYSTEMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0 | | 4. REPORT REQUIREMENTS |  |  |  |  |  |  |  |  | | REQUEST FOR EXTENSION OF COMPLIANCE - Per 52.40(d); (based on BACT analysis of 2020 NSR ICR) | 156 | 1 | 156 | 0.79 | 123.24 | 6.162 | 12.324 | $17,523 | | A. Familiarize with regulatory requirement | 1 | 1 | 1 | 79 | 79 | 3.95 | 7.9 | $11,232 | | Initial Notification Form of Applicability | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | B. Required Activities |  |  |  |  |  |  |  |  | | *New Sources - Testing* c |  |  |  |  |  |  |  |  | | Initial NOx Performance Test (kiln) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Repeat NOx Performance Test | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Initial Performance Evaluation of CPMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Repeat Performance Evaluation of CPMS | 0 | 0 | 0 | 0.00 | 0 | 0 | 0 | $0.00 | | *Existing Sources - Initial Testing* d |  |  |  |  |  |  |  |  | | Initial Performance Evaluation of CPMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Repeat Performance Evaluation of CPMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | *Existing Sources - Annual Testing* d |  |  |  |  |  |  |  |  | | Annual NOx Performance Test (kiln) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Repeat NOx Performance Test | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | *New and Existing Sources - Monitoring* e |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  | | C. Create Information (Included in 4B) |  |  |  |  |  |  |  |  | | D. Gather Existing Information (Included in 4E) |  |  |  |  |  |  |  |  | | E. Write Report |  |  |  |  |  |  |  |  | | *New Sources- Reporting* |  |  |  |  |  |  |  |  | | Notification of Initial Performance Test | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Report of Performance Test Results via CEDRI or analogous electronic reporting | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Notification of Demonstration of CPMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Notification of Initial Performance Evaluation of CPMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Report of Performance Evaluation of CPMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | |  |  |  |  |  |  |  |  |  | | Annual Report submitted via CEDRI or analogous electronic reporting | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | *Existing Sources-Reporting* |  |  |  |  |  |  |  |  | | Notification of annual Performance Test | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Report of Annual Performance Test Results and Annual Report combined via CEDRI or analogous electronic reporting | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Notification of Demonstration of CPMS | 0 | 0 | 2 | 0 | 0 | 0 | 0 | $0.00 | | Notification of Initial Performance Evaluation of CPMS | 0 | 0 | 2 | 0 | 0 | 0 | 0 | $0.00 | | Report of Initial Performance Evaluation of NOx CEMS or CPMS Test Results | 0 | 0 | 2 | 0 | 0 | 0 | 0 | $0.00 | | Annual Report submitted via CEDRI or analogous electronic reporting | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | ***Subtotal for Reporting Requirements*** |  |  |  |  | ***233*** |  |  | ***$28,755*** | | 5. RECORDKEEPING REQUIREMENTS |  |  |  |  |  |  |  |  | | A. Familiarize with regulatory requirement |  |  |  |  |  |  |  |  | | B. Plan Activities |  |  |  |  |  |  |  |  | | C. Implement Activities |  |  |  |  |  |  |  |  | | D. Record Data | NA |  |  |  |  |  |  |  | | E. Time to Transmit or Disclose Information |  |  |  |  |  |  |  |  | | *Existing Sources* |  |  |  |  |  |  |  |  | | Data Collection | 0.1 | 1 | 0.1 | 79 | 8 | 0.395 | 0.79 | $1,123 | | Records of Performance Tests | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Recordkeeping of NOx emission rate, operating days data, CPMS data | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | *New Sources* |  |  |  |  |  |  |  |  | | Data Collection | 1.5 | 1 | 1.5 | 5.53 | 8 | 0.41475 | 0.8295 | $1,179 | | Records of Performance Tests | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0 | | CPMS Recordkeeping | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0 | | F. Time to Train Personnel | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0 | | G. Time for Audits | NA |  |  |  |  |  |  |  | | ***Subtotal for Recordkeeping Requirements*** |  |  |  |  | ***19*** |  |  | ***$2,303*** | | **Total Labor Burden and Cost (rounded) e** |  |  |  |  | **300** | | | **$30,000** | | **Total Capital and O&M Cost (rounded) e** |  |  |  |  |  |  |  |  | | **Grand TOTAL (rounded) e** |  |  |  |  |  |  |  | **$0** | |  |  |  |  |  |  |  |  |  | | a We have assumed that there are approximately 79 affected kilns and that 10% of the existing units will have new construction/reconstruction. | | | | | | | | | | b This ICR uses the following labor rates: $161.62 per hour for Executive, Administrative, and Managerial labor; $127.68 per hour for Technical labor, and $64.22 per hour for Clerical labor. These rates are from the United States Department of Labor, Bureau of Labor Statistics, June 2022, “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. Archived report releases can be accessed from https://www.bls.gov/bls/news-release/ecec.htm#2021; from homepage, select Economic Releases, Archived News Releases, Employer Costs for Employee Compensation, Select a past year, Select a published report. | | | | | | | | | | c New kilns test for NOx. We have assumed that 5 percent of respondents would repeat initial performance test due to failure. | | | | | | | | | | d The rule requires existing kilns re-test annually for NOx. | | | | | | | | | | e Totals have been rounded to 3 significant figures. Figures may not add exactly due to rounding. | | | | | | | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  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--- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **Table 7: Annual Respondent Burden and Cost – Iron and Steel Mills and Ferroalloy Manufacturing, Year 1**   |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **Burden Item** | (A) Hours per Occurrence | (B) Occurrences/ Respondent/ Year | (C) Hours/ Respondent/ Year  (A x B) | (D) Respondents/ Yeara | (E) Technical Hours/Year  (C x D) | (F) Managerial Hours/Year  (E x 0.05) | (G)  Clerical Hours/Year  (E x 0.10) | (H) Cost/ Yearb | | 1. APPLICATIONS | NA |  |  |  |  |  |  |  | | 2. SURVEY AND STUDIES | NA |  |  |  |  |  |  |  | | 3.ACQUISITION, INSTALLATION, AND UTILIZATION OF TECHNOLOGY AND SYSTEMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0 | | 4. REPORT REQUIREMENTS |  |  |  |  |  |  |  |  | | REQUEST FOR CASE-BY-CASE EMISSION LIMITS - Per 52.40(e); (based on BACT analysis of 2020 NSR ICR) | 156 | 1 | 156 | 0.29 | 45.24 | 2.262 | 4.524 | $6,432 | | A. Familiarize with regulatory requirement | 10 | 1 | 10 | 29 | 290 | 14.5 | 29 | $41,233 | | Initial Notification Form of Applicability | 0.5 | 1 | 0.5 | 29 | 14.5 | 0.725 | 1.45 | $2,062 | | B. Required Activities |  |  |  |  |  |  |  |  | | *New Sources - Testing* c |  |  |  |  |  |  |  |  | | Initial Performance Evaluation of CPMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0 | | Repeat Performance Evaluation of CPMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0 | | *Existing Sources - Initial Testing* d |  |  |  |  |  |  |  |  | | Initial Performance Evaluation of CPMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0 | | Repeat Performance Evaluation of CPMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0 | | *New and Existing Sources - Monitoring* e |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  | | C. Create Information (Included in 4B) |  |  |  |  |  |  |  |  | | D. Gather Existing Information (Included in 4E) |  |  |  |  |  |  |  |  | | E. Write Report |  |  |  |  |  |  |  |  | | *New Sources* |  |  |  |  |  |  |  |  | | Notification of Demonstration of CPMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0 | | Notification of Initial Performance Evaluation of CPMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0 | | Report of Performance Evaluation of CPMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0 | |  |  |  |  |  |  |  |  |  | | *Existing Sources* |  |  |  |  |  |  |  |  | | Work Plan For Reheat Furnaces submitted via CEDRI | 10 | 1 | 10 | 14.5 | 145 | 7.25 | 14.5 | $20,616 | |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0 | |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0 | |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0 | |  |  |  |  |  |  |  |  |  | | Notification of Initial Performance Evaluation of CPMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0 | | Report of Initial Performance Evaluation of CPMS Test Results | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0 | | Annual Report submitted via CEDRI or analogous electronic reporting | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0 | | ***Subtotal for Reporting Requirements*** |  |  |  |  | ***569*** |  |  | $70,343 | | 5. RECORDKEEPING REQUIREMENTS |  |  |  |  |  |  |  |  | | A. Familiarize with regulatory requirement |  |  |  |  |  |  |  |  | | B. Plan Activities |  |  |  |  |  |  |  |  | | C. Implement Activities |  |  |  |  |  |  |  |  | | D. Record Data | NA |  |  |  |  |  |  |  | | E. Time to Transmit or Disclose Information |  |  |  |  |  |  |  |  | | *Existing Sources* |  |  |  |  |  |  |  |  | | Data Collection | 0.1 | 1 | 0.1 | 29 | 3 | 0.145 | 0.29 | $412 | | Recordkeeping of NOx emission rate, operating days data, CPMS data | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0 | | *New Sources* |  |  |  |  |  |  |  |  | | Data Collection | 1.5 | 1 | 1.5 | 2.03 | 3 | 0.15225 | 0.3045 | $433 | | CPMS Recordkeeping | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0 | | F. Time to Train Personnel | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0 | | G. Time for Audits | NA |  |  |  |  |  |  |  | | ***Subtotal for Recordkeeping Requirements*** |  |  |  |  | ***7*** |  |  | $845 | | **Total Labor Burden and Cost (rounded) e** |  |  |  |  | **600** | | | $70,000 | | **Total Capital and O&M Cost (rounded) e** |  |  |  |  |  |  |  | $0 | | **Grand TOTAL (rounded) e** |  |  |  |  |  |  |  | $100,000 | |  |  |  |  |  |  |  |  |  | | a We have assumed that there are approximately 29 affected units and that 10% of the existing units will have new construction/reconstruction. | | | | | | | | | | b This ICR uses the following labor rates: $161.62 per hour for Executive, Administrative, and Managerial labor; $127.68 per hour for Technical labor, and $64.22 per hour for Clerical labor. These rates are from the United States Department of Labor, Bureau of Labor Statistics, June 2022, “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. Archived report releases can be accessed from https://www.bls.gov/bls/news-release/ecec.htm#2021; from homepage, select Economic Releases, Archived News Releases, Employer Costs for Employee Compensation, Select a past year, Select a published report. | | | | | | | | | | c New boilers test for NOx. We have assumed that 5 percent of respondents would repeat initial performance test due to failure. | | | | | | | | | | d The rule requires existing boilers to conduct an initial compliance test within 90 days from the installation of the pollution control equipment used to comply with the NOx emission limits. We have assumed that 5 percent of respondents would repeat annual performance test due to failure. | | | | | | | | | | e Totals have been rounded to 3 significant figures. Figures may not add exactly due to rounding. | | | | | | | | |   **Table 8: Annual Respondent Burden and Cost – Iron and Steel Mills and Ferroalloy Manufacturing, Year 2**   |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **Burden Item** | (A) Hours per Occurrence | (B) Occurrences/ Respondent/ Year | (C) Hours/ Respondent/ Year  (A x B) | (D) Respondents/ Yeara | (E) Technical Hours/Year  (C x D) | (F) Managerial Hours/Year  (E x 0.05) | (G)  Clerical Hours/Year  (E x 0.10) | (H) Cost/ Yearb | | 1. APPLICATIONS | NA |  |  |  |  |  |  |  | | 2. SURVEY AND STUDIES | NA |  |  |  |  |  |  |  | | 3.ACQUISITION, INSTALLATION, AND UTILIZATION OF TECHNOLOGY AND SYSTEMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0 | | 4. REPORT REQUIREMENTS |  |  |  |  |  |  |  |  | | A. Familiarize with regulatory requirement | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | B. Required Activities |  |  |  |  |  |  |  |  | | *New Sources - Testing* c |  |  |  |  |  |  |  |  | | Initial Performance Evaluation of CPMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Repeat Performance Evaluation of CPMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | *Existing Sources - Initial Testing* d |  |  |  |  |  |  |  |  | | Initial Performance Evaluation of CPMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Repeat Performance Evaluation of CPMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | *New and Existing Sources - Monitoring* e |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  | | C. Create Information (Included in 4B) |  |  |  |  |  |  |  |  | | D. Gather Existing Information (Included in 4E) |  |  |  |  |  |  |  |  | | E. Write Report |  |  |  |  |  |  |  |  | | *New Sources* |  |  |  |  |  |  |  |  | | Notification of Demonstration of CPMS | 0 | 0 | 2 | 0 | 0 | 0 | 0 | $0.00 | | Notification of Initial Performance Evaluation of CPMS | 0 | 0 | 2 | 0 | 0 | 0 | 0 | $0.00 | | Report of Performance Evaluation of CPMS | 0 | 0 | 2 | 0 | 0 | 0 | 0 | $0.00 | | *Existing Sources* |  |  |  |  |  |  |  |  | | Work Plan For Reheat Furnaces submitted via CEDRI | 10 | 1 | 10 | 14.5 | 145 | 7.25 | 14.5 | $20,616 | | Notification of Demonstration of CPMS | 0 | 0 | 2 | 0 | 0 | 0 | 0 | $0.00 | | Notification of Initial Performance Evaluation of CPMS | 0 | 0 | 2 | 0 | 0 | 0 | 0 | $0.00 | | Report of Initial Performance Evaluation of CPMS Test Results | 0 | 0 | 2 | 0 | 0 | 0 | 0 | $0.00 | | Annual Report submitted via CEDRI or analogous electronic reporting | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | ***Subtotal for Reporting Requirements*** |  |  |  |  | ***167*** |  |  | ***$20,616*** | | 5. RECORDKEEPING REQUIREMENTS |  |  |  |  |  |  |  |  | | A. Familiarize with regulatory requirement |  |  |  |  |  |  |  |  | | B. Plan Activities |  |  |  |  |  |  |  |  | | C. Implement Activities |  |  |  |  |  |  |  |  | | D. Record Data | NA |  |  |  |  |  |  |  | | E. Time to Transmit or Disclose Information |  |  |  |  |  |  |  |  | | *Existing Sources* |  |  |  |  |  |  |  |  | | Data Collection | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Recordkeeping of NOx emission rate, operating days data, CPMS data | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | *New Sources* |  |  |  |  |  |  |  |  | | Data Collection | 1.5 | 1 | 1.5 | 2.03 | 3 | 0.15225 | 0.3045 | $433 | | CPMS Recordkeeping | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0 | | F. Time to Train Personnel | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0 | | G. Time for Audits | NA |  |  |  |  |  |  |  | | ***Subtotal for Recordkeeping Requirements*** |  |  |  |  | ***4*** |  |  | ***$433*** | | **Total Labor Burden and Cost (rounded) f** |  |  |  |  | **200** | | | **$20,000** | | **Total Capital and O&M Cost (rounded) f** |  |  |  |  |  |  |  | **$0** | | **Grand TOTAL (rounded) f** |  |  |  |  |  |  |  | **$0** | |  |  |  |  |  |  |  |  |  | | a We have assumed that there are approximately 29 affected units and that 10% of the existing units will have new construction/reconstruction. | | | | | | | | | | b This ICR uses the following labor rates: $161.62 per hour for Executive, Administrative, and Managerial labor; $127.68 per hour for Technical labor, and $64.22 per hour for Clerical labor. These rates are from the United States Department of Labor, Bureau of Labor Statistics, June 2022, “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. Archived report releases can be accessed from https://www.bls.gov/bls/news-release/ecec.htm#2021; from homepage, select Economic Releases, Archived News Releases, Employer Costs for Employee Compensation, Select a past year, Select a published report. | | | | | | | | | | c New boilers test for NOx. We have assumed that 5 percent of respondents would repeat initial performance test due to failure. | | | | | | | | | | d The rule requires existing boilers to conduct an initial compliance test within 90 days from the installation of the pollution control equipment used to comply with the NOx emission limits. We have assumed that 5 percent of respondents would repeat annual performance test due to failure. | | | | | | | | | | f Totals have been rounded to 3 significant figures. Figures may not add exactly due to rounding. | | | | | | | | |   **Table 9: Annual Respondent Burden and Cost – Iron and Steel Mills and Ferroalloy Manufacturing, Year 3**   |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **Burden Item** | (A) Hours per Occurrence | (B) Occurrences/ Respondent/ Year | (C) Hours/ Respondent/ Year  (A x B) | (D) Respondents/ Yeara | (E) Technical Hours/Year  (C x D) | (F) Managerial Hours/Year  (E x 0.05) | (G)  Clerical Hours/Year  (E x 0.10) | (H) Cost/ Yearb | | 1. APPLICATIONS | NA |  |  |  |  |  |  |  | | 2. SURVEY AND STUDIES | NA |  |  |  |  |  |  |  | | 3.ACQUISITION, INSTALLATION, AND UTILIZATION OF TECHNOLOGY AND SYSTEMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0 | | 4. REPORT REQUIREMENTS |  |  |  |  |  |  |  |  | | REQUEST FOR EXTENSION OF COMPLIANCE - Per 52.40(d); (based on BACT analysis of 2020 NSR ICR) | 156 | 1 | 156 | 0.29 | 45.24 | 2.262 | 4.524 | $6,432 | | A. Familiarize with regulatory requirement | 20 | 1 | 20 | 29 | 580 | 29 | 58 | $82,466 | | B. Required Activities |  |  |  |  |  |  |  |  | | *New Sources - Testing* c |  |  |  |  |  |  |  |  | | Initial Performance Evaluation of CPMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Repeat Performance Evaluation of CPMS | 0 | 0 | 0 | 0.00 | 0 | 0.00 | 0.00 | $0.00 | | *Existing Sources - Initial Testing* d |  |  |  |  |  |  |  |  | | Initial Performance Evaluation of CPMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Repeat Performance Evaluation of CPMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | *New and Existing Sources - Monitoring* e |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  | | C. Create Information (Included in 4B) |  |  |  |  |  |  |  |  | | D. Gather Existing Information (Included in 4E) |  |  |  |  |  |  |  |  | | E. Write Report |  |  |  |  |  |  |  |  | | *New Sources* |  |  |  |  |  |  |  |  | | Notification of Demonstration of CPMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Notification of Initial Performance Evaluation of CPMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Report of Performance Evaluation of CPMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | |  |  |  |  |  |  |  |  |  | | *Existing Sources* |  |  |  |  |  |  |  |  | | Notification of Demonstration of CPMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Notification of Initial Performance Evaluation of CPMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Report of Initial Performance Evaluation of CPMS Test Results | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | |  |  |  |  |  |  |  |  |  | | Annual Report submitted via CEDRI or analogous electronic reporting | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | ***Subtotal for Reporting Requirements*** |  |  |  |  | ***719*** |  |  | ***$88,898*** | | 5. RECORDKEEPING REQUIREMENTS |  |  |  |  |  |  |  |  | | A. Familiarize with regulatory requirement |  |  |  |  |  |  |  |  | | B. Plan Activities |  |  |  |  |  |  |  |  | | C. Implement Activities |  |  |  |  |  |  |  |  | | D. Record Data | NA |  |  |  |  |  |  |  | | E. Time to Transmit or Disclose Information |  |  |  |  |  |  |  |  | | *Existing Sources* |  |  |  |  |  |  |  |  | | Data Collection | 0.1 | 1 | 0.1 | 29 | 3 | 0.145 | 0.29 | $412 | | Recordkeeping of NOx emission rate, operating days data, CPMS data | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | *New Sources* |  |  |  |  |  |  |  |  | | Data Collection | 1.5 | 1 | 1.5 | 2.03 | 3 | 0.15 | 0.30 | $433 | | CPMS Recordkeeping | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0 | | F. Time to Train Personnel | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0 | | G. Time for Audits | NA |  |  |  |  |  |  |  | | ***Subtotal for Recordkeeping Requirements*** |  |  |  |  | ***7*** |  |  | ***$845*** | | **Total Labor Burden and Cost (rounded) f** |  |  |  |  | **700** | | | **$90,000** | | **Total Capital and O&M Cost (rounded) f** |  |  |  |  |  |  |  |  | | **Grand TOTAL (rounded) f** |  |  |  |  |  |  |  | **$100,000** | |  |  |  |  |  |  |  |  |  | | a We have assumed that there are approximately 29 affected units and that 10% of the existing units will have new construction/reconstruction. | | | | | | | | | | b This ICR uses the following labor rates: $161.62 per hour for Executive, Administrative, and Managerial labor; $127.68 per hour for Technical labor, and $64.22 per hour for Clerical labor. These rates are from the United States Department of Labor, Bureau of Labor Statistics, June 2022, “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. Archived report releases can be accessed from https://www.bls.gov/bls/news-release/ecec.htm#2021; from homepage, select Economic Releases, Archived News Releases, Employer Costs for Employee Compensation, Select a past year, Select a published report. | | | | | | | | | | c New boilers test for NOx. We have assumed that 5 percent of respondents would repeat initial performance test due to failure. | | | | | | | | | | d The rule requires existing boilers to conduct an initial compliance test within 90 days from the installation of the pollution control equipment used to comply with the NOx emission limits. We have assumed that 5 percent of respondents would repeat annual performance test due to failure. | | | | | | | | | | f Totals have been rounded to 3 significant figures. Figures may not add exactly due to rounding. | | | | | | | | |   **Table 10: Annual Respondent Burden and Cost – Glass and Glass Product Manufacturing, Year 1**   |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **Burden Item** | (A) Hours per Occurrence | (B) Occurrences/ Respondent/ Year | (C) Hours/ Respondent/ Year  (A x B) | (D) Respondents/ Yeara | (E) Technical Hours/Year  (C x D) | (F) Managerial Hours/Year  (E x 0.05) | (G)  Clerical Hours/Year  (E x 0.10) | (H) Cost/ Yearb | | 1. APPLICATIONS | NA |  |  |  |  |  |  |  | | 2. SURVEY AND STUDIES | NA |  |  |  |  |  |  |  | | 3.ACQUISITION, INSTALLATION, AND UTILIZATION OF TECHNOLOGY AND SYSTEMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0 | | 4. REPORT REQUIREMENTS |  |  |  |  |  |  |  |  | | REQUEST FOR CASE-BY-CASE EMISSION LIMITS - Per 52.40(e); (based on BACT analysis of 2020 NSR ICR) | 156 | 1 | 156 | 0.85 | 132.6 | 6.63 | 13.26 | $18,853 | | Initial Notification Form of Applicability | 0.5 | 1 | 0.5 | 85 | 42.5 | 2.125 | 4.25 | $6,043 | | A. Familiarize with regulatory requirement | 10 | 1 | 10 | 85 | 850 | 42.5 | 85 | $120,855 | | B. Required Activities |  |  |  |  |  |  |  |  | | *New Sources - Testing* c |  |  |  |  |  |  |  |  | | Initial NOx Performance Test (furnaces) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Repeat NOx Performance Test | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Initial Performance Evaluation of CPMS | 8 | 1 | 8 |  |  |  |  |  | | Repeat Performance Evaluation of CPMS | 8 | 1 | 8 |  |  |  |  |  | | *Existing Sources - Initial Testing* d |  |  |  |  |  |  |  |  | | Initial Performance Evaluation of CPMS | 8 | 1 | 8 |  |  |  |  |  | | Repeat Performance Evaluation of CPMS | 8 | 1 | 8 |  |  |  |  |  | | *Existing Sources - Annual Testing* d |  |  |  |  |  |  |  |  | | Annual NOx Performance Test (furnaces) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Repeat NOx Performance Test | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | *New and Existing Sources - Monitoring* e |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  | | C. Create Information (Included in 4B) |  |  |  |  |  |  |  |  | | D. Gather Existing Information (Included in 4E) |  |  |  |  |  |  |  |  | | E. Write Report |  |  |  |  |  |  |  |  | | *New Sources-Reporting* |  |  |  |  |  |  |  |  | | Notification of Initial Performance Test | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Report of Performance Tests submitted via CEDRI or analogous electronic reporting | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Notification of Demonstration of CPMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Notification of Initial Performance Evaluation of CPMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Report of Performance Evaluation of CPMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | *Existing Sources-Reporting* |  |  |  |  |  |  |  |  | | Notification of Annual Performance Test | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Report of Annual Performance Test Results submitted via CEDRI or analogous electronic reporting | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Notification of Demonstration of CEMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Notification of Initial Performance Evaluation of CPMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Report of Initial Performance Evaluation of CPMS Test Results | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | |  |  |  |  |  |  |  |  |  | | ***Subtotal for Reporting Requirements*** |  |  |  |  | ***1,179*** |  |  | ***$145,751*** | | 5. RECORDKEEPING REQUIREMENTS |  |  |  |  |  |  |  |  | | A. Familiarize with regulatory requirement |  |  |  |  |  |  |  |  | | B. Plan Activities |  |  |  |  |  |  |  |  | | C. Implement Activities |  |  |  |  |  |  |  |  | | D. Record Data | NA |  |  |  |  |  |  |  | | E. Time to Transmit or Disclose Information |  |  |  |  |  |  |  |  | | *Existing Sources* |  |  |  |  |  |  |  |  | | Data Collection | 0.1 | 1 | 0.1 | 85 | 9 | 0.425 | 0.85 | $1,208 | | Records of Performance Tests | 0 | 0 | 24 | 0 | 0 | 0 | 0 | $0.00 | | Recordkeeping of NOx emission rate, operating days data, CPMS data | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | *New Sources* |  |  |  |  |  |  |  |  | | Data Collection | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0 | | Records of Performance Tests | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0 | | CPMS Recordkeeping | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0 | | F. Time to Train Personnel | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0 | | G. Time for Audits | NA |  |  |  |  |  |  |  | | ***Subtotal for Recordkeeping Requirements*** |  |  |  |  | ***10*** |  |  | ***$1,209*** | | **Total Labor Burden and Cost (rounded) e** |  |  |  |  | **1,200** | | | **$150,000** | | **Total Capital and O&M Cost (rounded) e** |  |  |  |  |  |  |  |  | | **Grand TOTAL (rounded) e** |  |  |  |  |  |  |  | **$200,000** | |  |  |  |  |  |  |  |  |  | | a We have assumed that there are approximately 85 affected furnaces and that 10% of the existing units will have new construction/reconstruction. | | | | | | | | | | b This ICR uses the following labor rates: $161.62 per hour for Executive, Administrative, and Managerial labor; $127.68 per hour for Technical labor, and $64.22 per hour for Clerical labor. These rates are from the United States Department of Labor, Bureau of Labor Statistics, June 2022, “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. Archived report releases can be accessed from https://www.bls.gov/bls/news-release/ecec.htm#2021; from homepage, select Economic Releases, Archived News Releases, Employer Costs for Employee Compensation, Select a past year, Select a published report. | | | | | | | | | | c New furnaces test for NOx. We have assumed that 5 percent of respondents would repeat initial performance test due to failure. | | | | | | | | | | d The rule requires existing furnaces re-test annually for NOx. Existing furnaces are assumed to not have existing CPMS installed. | | | | | | | | | | e Totals have been rounded to 3 significant figures. Figures may not add exactly due to rounding. | | | | | | | | |   **Table 11: Annual Respondent Burden and Cost – Glass and Glass Product Manufacturing, Year 2**   |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **Burden Item** | (A) Hours per Occurrence | (B) Occurrences/ Respondent/ Year | (C) Hours/ Respondent/ Year  (A x B) | (D) Respondents/ Yeara | (E) Technical Hours/Year  (C x D) | (F) Managerial Hours/Year  (E x 0.05) | (G)  Clerical Hours/Year  (E x 0.10) | (H) Cost/ Yearb | | 1. APPLICATIONS | NA |  |  |  |  |  |  |  | | 2. SURVEY AND STUDIES | NA |  |  |  |  |  |  |  | | 3.ACQUISITION, INSTALLATION, AND UTILIZATION OF TECHNOLOGY AND SYSTEMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0 | | 4. REPORT REQUIREMENTS |  |  |  |  |  |  |  |  | | Initial Notification Form of Applicability | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | A. Familiarize with regulatory requirement | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | B. Required Activities |  |  |  |  |  |  |  |  | | *New Sources - Testing* c |  |  |  |  |  |  |  |  | | Initial NOx Performance Test (furnaces) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Repeat NOx Performance Test | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Initial Performance Evaluation of NOx CEMS or CPMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Repeat Performance Evaluation of NOx CEMS or CPMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | *Existing Sources - Initial Testing* d |  |  |  |  |  |  |  |  | | Initial Performance Evaluation of NOx CEMS or CPMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Repeat Performance Evaluation of NOx CEMS or CPMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | *Existing Sources - Annual Testing* d |  |  |  |  |  |  |  |  | | Annual NOx Performance Test (furnaces) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Repeat NOx Performance Test | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | *New and Existing Sources - Monitoring* e |  |  |  |  |  |  |  |  | | Daily Calibration Drift Tests - NOx CEMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Quarterly Accuracy Assessment |  |  |  |  |  |  |  |  | | C. Create Information (Included in 4B) |  |  |  |  |  |  |  |  | | D. Gather Existing Information (Included in 4E) |  |  |  |  |  |  |  |  | | E. Write Report |  |  |  |  |  |  |  |  | | *New Sources-Reporting* |  |  |  |  |  |  |  |  | | Notification of Initial Performance Test | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Report of Performance Tests submitted via CEDRI or analogous electronic reporting | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Notification of Demonstration of CEMS or CPMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Notification of Initial Performance Evaluation of NOx CEMS or CPMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Report of Performance Evaluation of NOx CEMS or CPMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | *Existing Sources-Reporting* |  |  |  |  |  |  |  |  | | Notification of Annual Performance Test | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Report of Annual Performance Test Results submitted via CEDRI or analogous electronic reporting | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Notification of Demonstration of CEMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Notification of Initial Performance Evaluation of NOx CEMS or CPMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Report of Initial Performance Evaluation of NOx CEMS or CPMS Test Results | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | |  |  |  |  |  |  |  |  |  | | ***Subtotal for Reporting Requirements*** |  |  |  |  | ***0*** |  |  | ***$0*** | | 5. RECORDKEEPING REQUIREMENTS |  |  |  |  |  |  |  |  | | A. Familiarize with regulatory requirement |  |  |  |  |  |  |  |  | | B. Plan Activities |  |  |  |  |  |  |  |  | | C. Implement Activities |  |  |  |  |  |  |  |  | | D. Record Data | NA |  |  |  |  |  |  |  | | E. Time to Transmit or Disclose Information |  |  |  |  |  |  |  |  | | *Existing Sources* |  |  |  |  |  |  |  |  | | Data Collection | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Records of Performance Tests | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Recordkeeping of NOx emission rate, operating days data, CEMS or CPMS data | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | *New Sources* |  |  |  |  |  |  |  |  | | Data Collection | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0 | | Records of Performance Tests | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0 | | CEMS or CPMS Recordkeeping | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0 | | F. Time to Train Personnel | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0 | | G. Time for Audits | NA |  |  |  |  |  |  |  | | ***Subtotal for Recordkeeping Requirements*** |  |  |  |  | ***0*** |  |  | ***$0*** | | **Total Labor Burden and Cost (rounded) e** |  |  |  |  | **0** | | | **$0** | | **Total Capital and O&M Cost (rounded) e** |  |  |  |  |  |  |  |  | | **Grand TOTAL (rounded) e** |  |  |  |  |  |  |  | **$0** | |  |  |  |  |  |  |  |  |  | | a We have assumed that there are approximately 85 affected furnaces and that 10% of the existing units will have new construction/reconstruction. | | | | | | | | | | b This ICR uses the following labor rates: $161.62 per hour for Executive, Administrative, and Managerial labor; $127.68 per hour for Technical labor, and $64.22 per hour for Clerical labor. These rates are from the United States Department of Labor, Bureau of Labor Statistics, June 2022, “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. Archived report releases can be accessed from https://www.bls.gov/bls/news-release/ecec.htm#2021; from homepage, select Economic Releases, Archived News Releases, Employer Costs for Employee Compensation, Select a past year, Select a published report. | | | | | | | | | | c New furnaces test for NOx. We have assumed that 5 percent of respondents would repeat initial performance test due to failure. | | | | | | | | | | d The rule requires existing furnaces re-test annually for NOx. Existing furnaces are assumed to not have existing CPMS installed. | | | | | | | | | | e Totals have been rounded to 3 significant figures. Figures may not add exactly due to rounding. | | | | | | | | |   **Table 12: Annual Respondent Burden and Cost – Glass and Glass Product Manufacturing, Year 3**   |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **Burden Item** | (A) Hours per Occurrence | (B) Occurrences/ Respondent/ Year | (C) Hours/ Respondent/ Year  (A x B) | (D) Respondents/ Yeara | (E) Technical Hours/Year  (C x D) | (F) Managerial Hours/Year  (E x 0.05) | (G)  Clerical Hours/Year  (E x 0.10) | (H) Cost/ Yearb | | 1. APPLICATIONS | NA |  |  |  |  |  |  |  | | 2. SURVEY AND STUDIES | NA |  |  |  |  |  |  |  | | 3.ACQUISITION, INSTALLATION, AND UTILIZATION OF TECHNOLOGY AND SYSTEMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0 | | 4. REPORT REQUIREMENTS |  |  |  |  |  |  |  |  | | REQUEST FOR EXTENSION OF COMPLIANCE - Per 52.40(d); (based on BACT analysis of 2020 NSR ICR) | 156 | 1 | 156 | 0.85 | 132.6 | 6.63 | 13.26 | $18,853 | | Initial Notification Form of Applicability | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | A. Familiarize with regulatory requirement | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | B. Required Activities |  |  |  |  |  |  |  |  | | *New Sources - Testing* c |  |  |  |  |  |  |  |  | | Initial NOx Performance Test (furnaces) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Repeat NOx Performance Test | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Initial Performance Evaluation of NOx CEMS or CPMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Repeat Performance Evaluation of NOx CEMS or CPMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | *Existing Sources - Initial Testing* d |  |  |  |  |  |  |  |  | | Initial Performance Evaluation of NOx CEMS or CPMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Repeat Performance Evaluation of NOx CEMS or CPMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | *Existing Sources - Annual Testing* d |  |  |  |  |  |  |  |  | | Annual NOx Performance Test (furnaces) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Repeat NOx Performance Test | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | *New and Existing Sources - Monitoring* e |  |  |  |  |  |  |  |  | | Daily Calibration Drift Tests - NOx CEMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Quarterly Accuracy Assessment | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | C. Create Information (Included in 4B) |  |  |  | 0 |  |  |  |  | | D. Gather Existing Information (Included in 4E) |  |  |  | 0 |  |  |  |  | | E. Write Report |  |  |  | 0 |  |  |  |  | | *New Sources-Reporting* |  |  |  |  |  |  |  |  | | Notification of Initial Performance Test | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Report of Performance Tests submitted via CEDRI or analogous electronic reporting | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Notification of Demonstration of CEMS or CPMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Notification of Initial Performance Evaluation of NOx CEMS or CPMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Report of Performance Evaluation of NOx CEMS or CPMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | *Existing Sources-Reporting* |  |  |  |  |  |  |  |  | | Notification of Annual Performance Test | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Report of Annual Performance Test Results submitted via CEDRI or analogous electronic reporting | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Notification of Demonstration of CEMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Notification of Initial Performance Evaluation of NOx CEMS or CPMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Report of Initial Performance Evaluation of NOx CEMS or CPMS Test Results | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | |  |  |  |  |  |  |  |  |  | | ***Subtotal for Reporting Requirements*** |  |  |  |  | ***152*** |  |  | ***$18,853*** | | 5. RECORDKEEPING REQUIREMENTS |  |  |  |  |  |  |  |  | | A. Familiarize with regulatory requirement |  |  |  |  |  |  |  |  | | B. Plan Activities |  |  |  |  |  |  |  |  | | C. Implement Activities |  |  |  |  |  |  |  |  | | D. Record Data | NA |  |  |  |  |  |  |  | | E. Time to Transmit or Disclose Information |  |  |  |  |  |  |  |  | | *Existing Sources* |  |  |  |  |  |  |  |  | | Data Collection | 0.1 | 1 | 0.1 | 85 | 9 | 0.425 | 0.85 | $1,209 | | Records of Performance Tests | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Recordkeeping of NOx emission rate, operating days data, CEMS or CPMS data | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | *New Sources* |  |  |  |  |  |  |  |  | | Data Collection | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0 | | Records of Performance Tests | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0 | | CEMS or CPMS Recordkeeping | 0 | 0 | 0 |  |  |  |  |  | | F. Time to Train Personnel | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0 | | G. Time for Audits | NA |  |  |  |  |  |  |  | | ***Subtotal for Recordkeeping Requirements*** |  |  |  |  | ***10*** |  |  | ***$1,209*** | | **Total Labor Burden and Cost (rounded) e** |  |  |  |  | **200** | | | **$20,000** | | **Total Capital and O&M Cost (rounded) e** |  |  |  |  |  |  |  |  | | **Grand TOTAL (rounded) e** |  |  |  |  |  |  |  | **$0** | |  |  |  |  |  |  |  |  |  | | a We have assumed that there are approximately 85 affected furnaces and that 10% of the existing units will have new construction/reconstruction. | | | | | | | | | | b This ICR uses the following labor rates: $161.62 per hour for Executive, Administrative, and Managerial labor; $127.68 per hour for Technical labor, and $64.22 per hour for Clerical labor. These rates are from the United States Department of Labor, Bureau of Labor Statistics, June 2022, “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. Archived report releases can be accessed from https://www.bls.gov/bls/news-release/ecec.htm#2021; from homepage, select Economic Releases, Archived News Releases, Employer Costs for Employee Compensation, Select a past year, Select a published report. | | | | | | | | | | c New furnaces test for NOx. We have assumed that 5 percent of respondents would repeat initial performance test due to failure. | | | | | | | | | | d The rule requires existing furnaces re-test annually for NOx. Existing furnaces are assumed to not have existing CPMS installed. | | | | | | | | | | e Totals have been rounded to 3 significant figures. Figures may not add exactly due to rounding. | | | | | | | | |   **Table 13: Annual Respondent Burden and Cost – Basic Chemical Manufacturing, Petroleum and Coal Products Manufacturing, Pulp, Metal Ore Mining, Paper, and Paperboard Manufacturing, Year 1**   |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **Burden Item** | (A) Hours per Occurrence | (B) Occurrences/ Respondent/ Year | (C) Hours/ Respondent/ Year  (A x B) | (D) Respondents/ Yeara | (E) Technical Hours/Year  (C x D) | (F) Managerial Hours/Year  (E x 0.05) | (G)  Clerical Hours/Year  (E x 0.10) | (H) Cost/ Yearb | | 1. APPLICATIONS | NA |  |  |  |  |  |  |  | | 2. SURVEY AND STUDIES | NA |  |  |  |  |  |  |  | | 3.ACQUISITION, INSTALLATION, AND UTILIZATION OF TECHNOLOGY AND SYSTEMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0 | | 4. REPORT REQUIREMENTS |  |  |  |  |  |  |  |  | | REQUEST FOR CASE-BY-CASE EMISSION LIMITS - Per 52.40(e); (based on BACT analysis of 2020 NSR ICR) | 156 | 1 | 156 | 2.08 | 324.48 | 16.224 | 32.448 | $46,135 | | A. Familiarize with regulatory requirement | 10 | 1 | 10 | 208 | 2080 | 104 | 208 | $295,740 | | B. Required Activities |  |  |  |  |  |  |  |  | | *New Sources - Testing* c |  |  |  |  |  |  |  |  | | Initial NOx Performance Test (boiler) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Repeat NOx Performance Test | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | *Existing Sources - Initial Testing* d |  |  |  |  |  |  |  |  | | Initial NOx Performance Test (boiler) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Repeat NOx Performance Test | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | *New and Existing Sources - Monitoring* e |  |  |  |  |  |  |  |  | | Daily Calibration Drift Tests - NOx CEMS or CPMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | C. Create Information (Included in 4B) |  |  |  |  |  |  |  |  | | D. Gather Existing Information (Included in 4E) |  |  |  |  |  |  |  |  | | E. Write Report |  |  |  |  |  |  |  |  | | *New Sources* |  |  |  |  |  |  |  |  | | Notification of Demonstration of CEMS or CPMS | 0 | 0 | 2 | 0 | 0 | 0 | 0 | $0.00 | | Notification of Initial Performance Test | 0 | 0 | 2 | 0 | 0 | 0 | 0 | $0.00 | | Report of Performance Tests | 0 | 0 | 2 | 0 | 0 | 0 | 0 | $0.00 | | Submit Quarterly Electronic Reports to Administrator of NOx Emission Rates data, Excess Emissions, Missing and Excluded Data, "F" factor, and other CEMS or CPMS data. | 0 | 0 | 48 | 0 | 0 | 0 | 0 | $0 | | *Existing Sources* |  |  |  |  |  |  |  |  | | Notification of Demonstration of CEMS or CPMS | 0 | 0 | 2 | 0 | 0 | 0 | 0 | $0.00 | | Notification of Initial Performance Test | 0 | 0 | 2 | 0 | 0 | 0 | 0 | $0.00 | | Report of Initial Performance Test Results | 0 | 0 | 2 | 0 | 0 | 0 | 0 | $0.00 | | Submit Quarterly Electronic Reports to Administrator of NOx Emission Rates data, Excess Emissions, Missing and Excluded Data, "F" factor, and other CEMS or CPMS data. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | ***Subtotal for Reporting Requirements*** |  |  |  |  | ***2,765*** |  |  | ***$341,875*** | | 5. RECORDKEEPING REQUIREMENTS |  |  |  |  |  |  |  |  | | A. Familiarize with regulatory requirement |  |  |  |  |  |  |  |  | | B. Plan Activities |  |  |  |  |  |  |  |  | | C. Implement Activities |  |  |  |  |  |  |  |  | | D. Record Data | NA |  |  |  |  |  |  |  | | E. Time to Transmit or Disclose Information |  |  |  |  |  |  |  |  | | *Existing Sources* |  |  |  |  |  |  |  |  | | Data Collection | 0.4 | 1 | 0.4 | 208 | 83 | 4.16 | 8.32 | $11,830 | | Records of Montly Fuel Use | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | *New Sources* |  |  |  |  |  |  |  |  | | Data Collection | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0 | | Records of Monthly Fuel Use | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0 | | F. Time to Train Personnel | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0 | | G. Time for Audits | NA |  |  |  |  |  |  |  | | ***Subtotal for Recordkeeping Requirements*** |  |  |  |  | ***96*** |  |  | ***$11,830*** | | **Total Labor Burden and Cost (rounded) f** |  |  |  |  | **2,900** | | | **$350,000** | | **Total Capital and O&M Cost (rounded) f** |  |  |  |  |  |  |  | **$0** | | **Grand TOTAL (rounded) f** |  |  |  |  |  |  |  | **$400,000** | |  |  |  |  |  |  |  |  |  | | a We have assumed that there are approximately 26 boilers are expected to install controls and that 10% of the existing units will have new construction/reconstruction. | | | | | | | | | | b This ICR uses the following labor rates: $161.62 per hour for Executive, Administrative, and Managerial labor; $127.68 per hour for Technical labor, and $64.22 per hour for Clerical labor. These rates are from the United States Department of Labor, Bureau of Labor Statistics, June 2022, “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. Archived report releases can be accessed from https://www.bls.gov/bls/news-release/ecec.htm#2021; from homepage, select Economic Releases, Archived News Releases, Employer Costs for Employee Compensation, Select a past year, Select a published report. | | | | | | | | | | c New boilers test for NOx. We have assumed that 5 percent of respondents would repeat initial performance test due to failure. | | | | | | | | | | d The rule requires existing boilers to conduct an initial compliance test within 90 days from the installation of the pollution control equipment used to comply with the NOx emission limits. We have assumed that 5 percent of respondents would repeat annual performance test due to failure. | | | | | | | | | | e Calibration drift checks on the air flow sensor on the NOx CEMS or CPMS are performed daily. | | | | | | | | | | f Totals have been rounded to 3 significant figures. Figures may not add exactly due to rounding. | | | | | | | | |   **Table 14: Annual Respondent Burden and Cost – Basic Chemical Manufacturing, Petroleum and Coal Products Manufacturing, Pulp, Paper, Metal Ore Mining, and Paperboard Manufacturing, Year 2**   |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **Burden Item** | (A) Hours per Occurrence | (B) Occurrences/ Respondent/ Year | (C) Hours/ Respondent/ Year  (A x B) | (D) Respondents/ Yeara | (E) Technical Hours/Year  (C x D) | (F) Managerial Hours/Year  (E x 0.05) | (G)  Clerical Hours/Year  (E x 0.10) | (H) Cost/ Yearb | | 1. APPLICATIONS | NA |  |  |  |  |  |  |  | | 2. SURVEY AND STUDIES | NA |  |  |  |  |  |  |  | | 3.ACQUISITION, INSTALLATION, AND UTILIZATION OF TECHNOLOGY AND SYSTEMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0 | | 4. REPORT REQUIREMENTS |  |  |  |  |  |  |  |  | | A. Familiarize with regulatory requirement | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | B. Required Activities |  |  |  |  |  |  |  |  | | *New Sources - Testing* c |  |  |  |  |  |  |  |  | | Initial NOx Performance Test (boiler) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Repeat NOx Performance Test | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | *Existing Sources - Initial Testing* d |  |  |  |  |  |  |  |  | | Initial NOx Performance Test (boiler) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Repeat NOx Performance Test | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | *New and Existing Sources - Monitoring* e |  |  |  |  |  |  |  |  | | Daily Calibration Drift Tests - NOx CEMS or CPMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | C. Create Information (Included in 4B) |  |  |  |  |  |  |  |  | | D. Gather Existing Information (Included in 4E) |  |  |  |  |  |  |  |  | | E. Write Report |  |  |  |  |  |  |  |  | | *New Sources* |  |  |  |  |  |  |  |  | | Notification of Demonstration of CEMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Notification of Initial Performance Test | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Report of Performance Tests | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Submit Quarterly Electronic Reports to Administrator of NOx Emission Rates data, Excess Emissions, Missing and Excluded Data, "F" factor, and other CEMS data. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0 | | *Existing Sources* |  |  |  |  |  |  |  |  | | Notification of Demonstration of CEMS or CPMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Notification of Initial Performance Test | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Report of Initial Performance Test Results | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Submit Quarterly Electronic Reports to Administrator of NOx Emission Rates data, Excess Emissions, Missing and Excluded Data, "F" factor, and other CEMS or CPMS data. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | ***Subtotal for Reporting Requirements*** |  |  |  |  | ***0*** |  |  | ***$0*** | | 5. RECORDKEEPING REQUIREMENTS |  |  |  |  |  |  |  |  | | A. Familiarize with regulatory requirement |  |  |  |  |  |  |  |  | | B. Plan Activities |  |  |  |  |  |  |  |  | | C. Implement Activities |  |  |  |  |  |  |  |  | | D. Record Data | NA |  |  |  |  |  |  |  | | E. Time to Transmit or Disclose Information |  |  |  |  |  |  |  |  | | *Existing Sources* |  |  |  |  |  |  |  |  | | Data Collection | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Records of Montly Fuel Use | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | *New Sources* |  |  |  |  |  |  |  |  | | Data Collection | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0 | | Records of Monthly Fuel Use | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0 | | F. Time to Train Personnel | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0 | | G. Time for Audits | NA |  |  |  |  |  |  |  | | ***Subtotal for Recordkeeping Requirements*** |  |  |  |  | ***0*** |  |  | ***$0*** | | **Total Labor Burden and Cost (rounded) f** |  |  |  |  | **0** | | | **$0** | | **Total Capital and O&M Cost (rounded) f** |  |  |  |  |  |  |  | **$0** | | **Grand TOTAL (rounded) f** |  |  |  |  |  |  |  | **$0** | |  |  |  |  |  |  |  |  |  | | a We have assumed that there are approximately 26 boilers are expected to install controls and that 10% of the existing units will have new construction/reconstruction. | | | | | | | | | | b This ICR uses the following labor rates: $161.62 per hour for Executive, Administrative, and Managerial labor; $127.68 per hour for Technical labor, and $64.22 per hour for Clerical labor. These rates are from the United States Department of Labor, Bureau of Labor Statistics, June 2022, “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. Archived report releases can be accessed from https://www.bls.gov/bls/news-release/ecec.htm#2021; from homepage, select Economic Releases, Archived News Releases, Employer Costs for Employee Compensation, Select a past year, Select a published report. | | | | | | | | | | c New boilers test for NOx. We have assumed that 5 percent of respondents would repeat initial performance test due to failure. | | | | | | | | | | d The rule requires existing boilers to conduct an initial compliance test within 90 days from the installation of the pollution control equipment used to comply with the NOx emission limits. We have assumed that 5 percent of respondents would repeat annual performance test due to failure. | | | | | | | | | | e Calibration drift checks on the air flow sensor on the NOx CEMS or CPMS are performed daily. | | | | | | | | | | f Totals have been rounded to 3 significant figures. Figures may not add exactly due to rounding. | | | | | | | | |   **Table 15: Annual Respondent Burden and Cost – Basic Chemical Manufacturing, Petroleum and Coal Products Manufacturing, Pulp, Paper, Metal Ore Mining, and Paperboard Manufacturing, Year 3**   |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **Burden Item** | (A) Hours per Occurrence | (B) Occurrences/ Respondent/ Year | (C) Hours/ Respondent/ Year  (A x B) | (D) Respondents/ Yeara | (E) Technical Hours/Year  (C x D) | (F) Managerial Hours/Year  (E x 0.05) | (G)  Clerical Hours/Year  (E x 0.10) | (H) Cost/ Yearb | | 1. APPLICATIONS | NA |  |  |  |  |  |  |  | | 2. SURVEY AND STUDIES | NA |  |  |  |  |  |  |  | | 3.ACQUISITION, INSTALLATION, AND UTILIZATION OF TECHNOLOGY AND SYSTEMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0 | | 4. REPORT REQUIREMENTS |  |  |  |  |  |  |  |  | | REQUEST FOR EXTENSION OF COMPLIANCE - Per 52.40(d); (based on BACT analysis of 2020 NSR ICR) | 156 | 1 | 156 | 2.08 | 324.48 | 16.224 | 32.448 | $46,135 | | A. Familiarize with regulatory requirement | 10 | 1 | 10 | 208 | 2080 | 104 | 208 | $295,740 | | B. Required Activities |  |  |  |  |  |  |  |  | | *New Sources - Testing* c |  |  |  |  |  |  |  |  | | Initial NOx Performance Test (boiler) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Repeat NOx Performance Test | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | *Existing Sources - Initial Testing* d |  |  |  |  |  |  |  |  | | Initial NOx Performance Test (boiler) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Repeat NOx Performance Test | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | *New and Existing Sources - Monitoring* e |  |  |  |  |  |  |  |  | | Daily Calibration Drift Tests - NOx CEMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | C. Create Information (Included in 4B) |  |  |  |  |  |  |  |  | | D. Gather Existing Information (Included in 4E) |  |  |  |  |  |  |  |  | | E. Write Report |  |  |  |  |  |  |  |  | | *New Sources* |  |  |  |  |  |  |  |  | | Notification of Demonstration of CEMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Notification of Initial Performance Test | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Report of Performance Tests submitted via CEDRI or analogous electronic reporting | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Submit Written Request to Administrator documenting Initial Performance Test and an Alternative Monitoring Plan (Alternative to CEMS).f | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Submit Quarterly Electronic Reports to of NOx Emission Rates data, Excess Emissions, Missing and Excluded Data, "F" factor, and other CEMS data. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0 | | *Existing Sources* |  |  |  |  |  |  |  |  | | Notification of Demonstration of CEMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Notification of Initial Performance Test | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Report of Initial Performance Test Results submitted via CEDRI or analogous electronic reporting | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Submit Written Request to Administrator documenting Initial Performance Test and an Alternative Monitoring Plan (Alternative to CEMS).f | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Submit Quarterly Electronic Reports via CEDRI or analogous electronic reporting to EPA of NOx Emission Rates data, Excess Emissions, Missing and Excluded Data, "F" factor, and other CEMS data. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | ***Subtotal for Reporting Requirements*** |  |  |  |  | ***2,765*** |  |  | ***$341,875*** | | 5. RECORDKEEPING REQUIREMENTS |  |  |  |  |  |  |  |  | | A. Familiarize with regulatory requirement |  |  |  |  |  |  |  |  | | B. Plan Activities |  |  |  |  |  |  |  |  | | C. Implement Activities |  |  |  |  |  |  |  |  | | D. Record Data | NA |  |  |  |  |  |  |  | | E. Time to Transmit or Disclose Information |  |  |  |  |  |  |  |  | | *Existing Sources* |  |  |  |  |  |  |  |  | | Data Collection | 0.1 | 1 | 0.1 | 208 | 21 | 1.04 | 2.08 | $2,957 | | Records of Monthly Fuel Use, Average Hourly NOx emission rates, 30-day average NOx emission rates, Excess Emissions data, Missed monitoring day data, "F" factor, and CEMS monitoring data. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | *New Sources* |  |  |  |  |  |  |  |  | | Data Collection | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0 | | Records of Monthly Fuel Use, Average Hourly NOx emission rates, 30-day average NOx emission rates, Excess Emissions data, Missed monitoring day data, "F" factor, and CEMS monitoring data. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0 | | F. Time to Train Personnel | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0 | | G. Time for Audits | NA |  |  |  |  |  |  |  | | ***Subtotal for Recordkeeping Requirements*** |  |  |  |  | ***24*** |  |  | ***$2,957*** | | **Total Labor Burden and Cost (rounded) f** |  |  |  |  | **2,800** | | | **$340,000** | | **Total Capital and O&M Cost (rounded) f** |  |  |  |  |  |  |  |  | | **Grand TOTAL (rounded) f** |  |  |  |  |  |  |  | **$300,000** | |  |  |  |  |  |  |  |  |  | | a We have assumed that there are approximately 26 boilers are expected to install controls and that 10% of the existing units will have new construction/reconstruction. | | | | | | | | | | b This ICR uses the following labor rates: $161.62 per hour for Executive, Administrative, and Managerial labor; $127.68 per hour for Technical labor, and $64.22 per hour for Clerical labor. These rates are from the United States Department of Labor, Bureau of Labor Statistics, June 2022, “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. Archived report releases can be accessed from https://www.bls.gov/bls/news-release/ecec.htm#2021; from homepage, select Economic Releases, Archived News Releases, Employer Costs for Employee Compensation, Select a past year, Select a published report. | | | | | | | | | | c New boilers test for NOx. We have assumed that 5 percent of respondents would repeat initial performance test due to failure. | | | | | | | | | | d The rule requires existing boilers to conduct an initial compliance test within 90 days from the installation of the pollution control equipment used to comply with the NOx emission limits. We have assumed that 5 percent of respondents would repeat annual performance test due to failure. | | | | | | | | | | e Calibration drift checks on the air flow sensor on the NOx CEMS are performed daily. | | | | | | | | | | f 10 percent of respondents are assumed to submit a written request to Administrator for an alternative monitoring procedure (instead of use of CEMS). | | | | | | | | | | g Totals have been rounded to 3 significant figures. Figures may not add exactly due to rounding. | | | | | | | | |   **Table 16: Annual Respondent Burden and Cost – Solid Waste Combustors and Incinerators, Year 1**   |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **Burden Item** | (A) Hours per Occurrence | (B) Occurrences/ Respondent/ Year | (C) Hours/ Respondent/ Year  (A x B) | (D) Respondents/ Yeara | (E) Technical Hours/Year  (C x D) | (F) Managerial Hours/Year  (E x 0.05) | (G)  Clerical Hours/Year  (E x 0.10) | (H) Cost/ Yearb | | 1. APPLICATIONS | NA |  |  |  |  |  |  |  | | 2. SURVEY AND STUDIES | NA |  |  |  |  |  |  |  | | 3.ACQUISITION, INSTALLATION, AND UTILIZATION OF TECHNOLOGY AND SYSTEMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0 | | 4. REPORT REQUIREMENTS |  |  |  |  |  |  |  |  | | REQUEST FOR CASE-BY-CASE EMISSION LIMITS - Per 52.40(e); (based on BACT analysis of 2020 NSR ICR) | 156 | 1 | 156 | 0.8 | 124.8 | 6.24 | 12.48 | $17,744 | | A. Familiarize with regulatory requirement | 10 | 1 | 10 | 80 | 800 | 40 | 80 | $113,746 | | B. Required Activities |  |  |  |  |  |  |  |  | | *New Sources - Testing* c |  |  |  |  |  |  |  |  | | Initial NOx Performance Test | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Repeat NOx Performance Test | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | *Existing Sources - Initial Testing* d |  |  |  |  |  |  |  |  | | Initial NOx Performance Test | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Repeat NOx Performance Test | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | *New and Existing Sources - Monitoring* e |  |  |  |  |  |  |  |  | | Daily Calibration Drift Tests - NOx CEMSg | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | C. Create Information (Included in 4B) |  |  |  |  |  |  |  |  | | D. Gather Existing Information (Included in 4E) |  |  |  |  |  |  |  |  | | E. Write Report |  |  |  |  |  |  |  |  | | *New Sources* |  |  |  |  |  |  |  |  | | Notification of Demonstration of CEMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Notification of Initial Performance Test | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Report of Performance Tests | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Submit Annual Electronic Reports via CEDRI or analogous electronic reporting to EPA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0 | | *Existing Sources* |  |  |  |  |  |  |  |  | | Notification of Demonstration of CEMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Notification of Initial Performance Test | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Report of Initial Performance Test Results | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Submit Annual Electronic Reports via CEDRI or analogous electronic reporting to EPA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | ***Subtotal for Reporting Requirements*** |  |  |  |  | ***1,064*** |  |  | ***$131,490*** | | 5. RECORDKEEPING REQUIREMENTS |  |  |  |  |  |  |  |  | | A. Familiarize with regulatory requirement |  |  |  |  |  |  |  |  | | B. Plan Activities |  |  |  |  |  |  |  |  | | C. Implement Activities |  |  |  |  |  |  |  |  | | D. Record Data | NA |  |  |  |  |  |  |  | | E. Time to Transmit or Disclose Information |  |  |  |  |  |  |  |  | | *Existing Sources* |  |  |  |  |  |  |  |  | | Data Collection | 0.4 | 12 | 4.8 | 80 | 384 | 19.2 | 38.4 | $54,598 | | Records of 1-hour ave. NOx emissions, 24-hour ave. NOx emissions, excluded NOx emissions data, daily drift tests, quarterly accuracy determination for CEMS, certified and trained staff records, off-site staff records. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | *New Sources* |  |  |  |  |  |  |  |  | | Data Collection | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0 | | Records of 1-hour ave. NOx emissions, 24-hour ave. NOx emissions, excluded NOx emissions data, daily drift tests, quarterly accuracy determination for CEMS, certified and trained staff records, off-site staff records. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0 | | F. Time to Train Personnel | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0 | | G. Time for Audits | NA |  |  |  |  |  |  |  | | ***Subtotal for Recordkeeping Requirements*** |  |  |  |  | ***442*** |  |  | ***$54,598*** | | **Total Labor Burden and Cost (rounded) f** |  |  |  |  | **1,500** | | | **$190,000** | | **Total Capital and O&M Cost (rounded) f** |  |  |  |  |  |  |  | **$0** | | **Grand TOTAL (rounded) f** |  |  |  |  |  |  |  | **$200,000** | |  |  |  |  |  |  |  |  |  | | a We have assumed that there are approximately 80 affected municipal waste combustors (MWCs). | | | | | | | | | | b This ICR uses the following labor rates: $161.62 per hour for Executive, Administrative, and Managerial labor; $127.68 per hour for Technical labor, and $64.22 per hour for Clerical labor. These rates are from the United States Department of Labor, Bureau of Labor Statistics, June 2022, “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. Archived report releases can be accessed from https://www.bls.gov/bls/news-release/ecec.htm#2021; from homepage, select Economic Releases, Archived News Releases, Employer Costs for Employee Compensation, Select a past year, Select a published report. | | | | | | | | | | c New MWCs test for NOx. We have assumed that 5 percent of respondents would repeat initial performance test due to failure. | | | | | | | | | | d The rule requires existing MWCs to conduct an initial compliance test within 90 days from the installation of the pollution control equipment used to comply with the NOx emission limits. We have assumed that 5 percent of respondents would repeat annual performance test due to failure. | | | | | | | | | | e Calibration drift checks on the air flow sensor on the NOx CEMS or CPMS are performed daily. | | | | | | | | | | f Totals have been rounded to 3 significant figures. Figures may not add exactly due to rounding. | | | | | | | | | | g As described in EPA's final rule Non-EGU Sectors Technical Support Document, EPA conducted research on existing federal regulations, state RACTs and facility permits. EPA research found 74 units are assumed to already be subject to NSPS (ie. NSPS subpart Eb) or state RACTs and are assumed to already have CEMS installed. EPA research found 6 MWCs of the 80 affected units do not have existing controls. | | | | | | | | |   **Table 17: Annual Respondent Burden and Cost – Solid Waste Combustors and Incinerators, Year 2**   |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **Burden Item** | (A) Hours per Occurrence | (B) Occurrences/ Respondent/ Year | (C) Hours/ Respondent/ Year  (A x B) | (D) Respondents/ Yeara | (E) Technical Hours/Year  (C x D) | (F) Managerial Hours/Year  (E x 0.05) | (G)  Clerical Hours/Year  (E x 0.10) | (H) Cost/ Yearb | | 1. APPLICATIONS | NA |  |  |  |  |  |  |  | | 2. SURVEY AND STUDIES | NA |  |  |  |  |  |  |  | | 3.ACQUISITION, INSTALLATION, AND UTILIZATION OF TECHNOLOGY AND SYSTEMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0 | | 4. REPORT REQUIREMENTS |  |  |  |  |  |  |  |  | | A. Familiarize with regulatory requirement | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | B. Required Activities |  |  |  |  |  |  |  |  | | *New Sources - Testing* c |  |  |  |  |  |  |  |  | | Initial NOx Performance Test | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Repeat NOx Performance Test | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | *Existing Sources - Initial Testing* d |  |  |  |  |  |  |  |  | | Initial NOx Performance Test | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Repeat NOx Performance Test | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | *New and Existing Sources - Monitoring* e |  |  |  |  |  |  |  |  | | Daily Calibration Drift Tests - NOx CEMSg | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | C. Create Information (Included in 4B) |  |  |  |  |  |  |  |  | | D. Gather Existing Information (Included in 4E) |  |  |  |  |  |  |  |  | | E. Write Report |  |  |  |  |  |  |  |  | | *New Sources* |  |  |  |  |  |  |  |  | | Notification of Demonstration of CEMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Notification of Initial Performance Test | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Report of Performance Tests | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Submit Annual Electronic Reports via CEDRI or analogous electronic reporting to EPA | 0 | 0 | 48 | 0 | 0 | 0 | 0 | $0 | | *Existing Sources* |  |  |  |  |  |  |  |  | | Notification of Demonstration of CEMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Notification of Initial Performance Test | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Report of Initial Performance Test Results | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Submit Annual Electronic Reports via CEDRI or analogous electronic reporting to EPA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | ***Subtotal for Reporting Requirements*** |  |  |  |  | ***0*** |  |  | ***$0*** | | 5. RECORDKEEPING REQUIREMENTS |  |  |  |  |  |  |  |  | | A. Familiarize with regulatory requirement |  |  |  |  |  |  |  |  | | B. Plan Activities |  |  |  |  |  |  |  |  | | C. Implement Activities |  |  |  |  |  |  |  |  | | D. Record Data | NA |  |  |  |  |  |  |  | | E. Time to Transmit or Disclose Information |  |  |  |  |  |  |  |  | | *Existing Sources* |  |  |  |  |  |  |  |  | | Data Collection | 0.4 | 12 | 4.8 | 80 | 384 | 19.2 | 38.4 | $54,598 | | Records of 1-hour ave. NOx emissions, 24-hour ave. NOx emissions, excluded NOx emissions data, daily drift tests, quarterly accuracy determination for CEMS, certified and trained staff records, off-site staff records. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | *New Sources* |  |  |  |  |  |  |  |  | | Data Collection | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0 | | Records of 1-hour ave. NOx emissions, 24-hour ave. NOx emissions, excluded NOx emissions data, daily drift tests, quarterly accuracy determination for CEMS, certified and trained staff records, off-site staff records. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0 | | F. Time to Train Personnel | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0 | | G. Time for Audits | NA |  |  |  |  |  |  |  | | ***Subtotal for Recordkeeping Requirements*** |  |  |  |  | ***442*** |  |  | ***$54,598*** | | **Total Labor Burden and Cost (rounded) f** |  |  |  |  | **400** | | | **$50,000** | | **Total Capital and O&M Cost (rounded) f** |  |  |  |  |  |  |  | **$0** | | **Grand TOTAL (rounded) f** |  |  |  |  |  |  |  | **$100,000** | |  |  |  |  |  |  |  |  |  | | a We have assumed that there are approximately 80 affected municipal waste combustors (MWCs). | | | | | | | | | | b This ICR uses the following labor rates: $161.62 per hour for Executive, Administrative, and Managerial labor; $127.68 per hour for Technical labor, and $64.22 per hour for Clerical labor. These rates are from the United States Department of Labor, Bureau of Labor Statistics, June 2022, “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. Archived report releases can be accessed from https://www.bls.gov/bls/news-release/ecec.htm#2021; from homepage, select Economic Releases, Archived News Releases, Employer Costs for Employee Compensation, Select a past year, Select a published report. | | | | | | | | | | c New MWCs test for NOx. We have assumed that 5 percent of respondents would repeat initial performance test due to failure. | | | | | | | | | | d The rule requires existing MWCs to conduct an initial compliance test within 90 days from the installation of the pollution control equipment used to comply with the NOx emission limits. We have assumed that 5 percent of respondents would repeat annual performance test due to failure. | | | | | | | | | | e Calibration drift checks on the air flow sensor on the NOx CEMS or CPMS are performed daily. | | | | | | | | | | f Totals have been rounded to 3 significant figures. Figures may not add exactly due to rounding. | | | | | | | | | | g As described in EPA's final rule Non-EGU Sectors Technical Support Document, EPA conducted research on existing federal regulations, state RACTs and facility permits. EPA research found 74 units are assumed to already be subject to NSPS (ie. NSPS subpart Eb) or state RACTs and are assumed to already have CEMS installed. EPA research found 6 MWCs of the 80 affected units do not have existing controls. | | | | | | | | |   **Table 18: Annual Respondent Burden and Cost – Solid Waste Combustors and Incinerators, Year 3**   |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | |  |  |  |  |  |  |  |  |  | | **Burden Item** | (A) Hours per Occurrence | (B) Occurrences/ Respondent/ Year | (C) Hours/ Respondent/ Year  (A x B) | (D) Respondents/ Yeara | (E) Technical Hours/Year  (C x D) | (F) Managerial Hours/Year  (E x 0.05) | (G)  Clerical Hours/Year  (E x 0.10) | (H) Cost/ Yearb | | 1. APPLICATIONS | NA |  |  |  |  |  |  |  | | 2. SURVEY AND STUDIES | NA |  |  |  |  |  |  |  | | 3.ACQUISITION, INSTALLATION, AND UTILIZATION OF TECHNOLOGY AND SYSTEMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0 | | 4. REPORT REQUIREMENTS |  |  |  |  |  |  |  |  | | REQUEST FOR EXTENSION OF COMPLIANCE - Per 52.40(d); (based on BACT analysis of 2020 NSR ICR) | 156 | 1 | 156 | 0.8 | 124.8 | 6.24 | 12.48 | $17,744 | | A. Familiarize with regulatory requirement | 10 | 1 | 10 | 80 | 800 | 40 | 80 | $113,746 | | B. Required Activities |  |  |  |  |  |  |  |  | | *New Sources - Testing* c |  |  |  |  |  |  |  |  | | Initial NOx Performance Test | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | Repeat NOx Performance Test | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | *Existing Sources - Initial Testing* d |  |  |  |  |  |  |  |  | | Initial NOx Performance Test | 6 | 1 | 6 | 6 | 36 | 1.8 | 3.6 | $5,119 | | Repeat NOx Performance Test | 6 | 1 | 6 | 0.3 | 2 | 0.09 | 0.18 | $256 | | *New and Existing Sources - Monitoring* e |  |  |  |  |  |  |  |  | | Daily Calibration Drift Tests - NOx CEMSh | 0.3 | 330 | 99 | 6 | 594 | 29.7 | 59.4 | $84,456 | | C. Create Information (Included in 4B) |  |  |  |  |  |  |  |  | | D. Gather Existing Information (Included in 4E) |  |  |  |  |  |  |  |  | | E. Write Report |  |  |  |  |  |  |  |  | | *New Sources* |  |  |  |  |  |  |  |  | | Notification of Demonstration of CEMS | 0 | 0 | 2 | 0 | 0 | 0 | 0 | $0.00 | | Notification of Initial Performance Test | 0 | 0 | 2 | 0 | 0 | 0 | 0 | $0.00 | | Report of Performance Tests submitted via CEDRI or analogous electronic reporting | 0 | 0 | 2 | 0 | 0 | 0 | 0 | $0.00 | | Submit Annual Electronic Reports via CEDRI or analogous electronic reporting to EPA |  |  |  |  |  |  |  |  | | *Existing Sources* |  |  |  |  |  |  |  |  | | Notification of Demonstration of CEMS | 2 | 1 | 2 | 6 | 12 | 0.6 | 1.2 | $1,706 | | Notification of Initial Performance Test | 2 | 1 | 2 | 6 | 12 | 0.6 | 1.2 | $1,706 | | Report of Initial Performance Test Results submitted via CEDRI or analogous electronic reporting | 2 | 1 | 2 | 6 | 12 | 0.6 | 1.2 | $1,706 | | Submit Annual Electronic Reports via CEDRI or analogous electronic reporting to EPA |  | 1 |  |  |  |  |  |  | | ***Subtotal for Reporting Requirements*** |  |  |  |  | ***1,831*** |  |  | ***$226,440*** | | 5. RECORDKEEPING REQUIREMENTS |  |  |  |  |  |  |  |  | | A. Familiarize with regulatory requirement |  |  |  |  |  |  |  |  | | B. Plan Activities |  |  |  |  |  |  |  |  | | C. Implement Activities |  |  |  |  |  |  |  |  | | D. Record Data | NA |  |  |  |  |  |  |  | | E. Time to Transmit or Disclose Information |  |  |  |  |  |  |  |  | | *Existing Sources* |  |  |  |  |  |  |  |  | | Data Collection | 0.1 | 1 | 0.1 | 80 | 8 | 0.4 | 0.8 | $1,137 | | Records of 1-hour ave. NOx emissions, 24-hour ave. NOx emissions, excluded NOx emissions data, daily drift tests, quarterly accuracy determination for CEMS, certified and trained staff records, off-site staff records. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0.00 | | *New Sources* |  |  |  |  |  |  |  |  | | Data Collection | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0 | | Records of 1-hour ave. NOx emissions, 24-hour ave. NOx emissions, excluded NOx emissions data, daily drift tests, quarterly accuracy determination for CEMS, certified and trained staff records, off-site staff records. | 0 | 0 | 0 |  | 0 | 0 | 0 | $0 | | F. Time to Train Personnel | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0 | | G. Time for Audits | NA |  |  |  |  |  |  |  | | ***Subtotal for Recordkeeping Requirements*** |  |  |  |  | ***9*** |  |  | ***$1,137*** | | **Total Labor Burden and Cost (rounded) f** |  |  |  |  | **1,800** | | | **$230,000** | | **Total Capital and O&M Cost (rounded) f** |  |  |  |  |  |  |  |  | | **Grand TOTAL (rounded) f** |  |  |  |  |  |  |  | **$200,000** | |  |  |  |  |  |  |  |  |  | | a We have assumed that there are approximately 80 affected municipal waste combustors (MWCs). | | | | | | | | | | b This ICR uses the following labor rates: $161.62 per hour for Executive, Administrative, and Managerial labor; $127.68 per hour for Technical labor, and $64.22 per hour for Clerical labor. These rates are from the United States Department of Labor, Bureau of Labor Statistics, June 2022, “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. Archived report releases can be accessed from https://www.bls.gov/bls/news-release/ecec.htm#2021; from homepage, select Economic Releases, Archived News Releases, Employer Costs for Employee Compensation, Select a past year, Select a published report. | | | | | | | | | | c New MWCs test for NOx. We have assumed that 5 percent of respondents would repeat initial performance test due to failure. | | | | | | | | | | d The rule requires existing MWCs to conduct an initial compliance test within 90 days from the installation of the pollution control equipment used to comply with the NOx emission limits. We have assumed that 5 percent of respondents would repeat annual performance test due to failure. | | | | | | | | | | e Calibration drift checks on the air flow sensor on the NOx CEMS are performed daily. | | | | | | | | | | f 10 percent of respondents are assumed to submit a written request to Administrator for an alternative monitoring procedure (instead of use of CEMS). | | | | | | | | | | g Totals have been rounded to 3 significant figures. Figures may not add exactly due to rounding. | | | | | | | | | | g As described in EPA's final rule Non-EGU Sectors Technical Support Document, EPA conducted research on existing federal regulations, state RACTs and facility permits. EPA research found 74 units are assumed to already be subject to NSPS (ie. NSPS subpart Eb) or state RACTs and are assumed to already have CEMS installed. EPA research found 6 MWCs of the 80 affected units do not have existing controls. | | | | | | | | | | | |

1. The Non-EGU Screening Assessment is available in the docket here: https://www.regulations.gov/document/EPA-HQ-OAR-2021-0668-0150. [↑](#footnote-ref-3)