

# U.S. Environmental Protection Agency

## Information Collection Request

**Title:** Greenhouse Gas Reporting Rule: Revisions and Confidentiality Determinations for Petroleum and Natural Gas Systems; Final Rule

**OMB Control Number:** 2060-NEW

**EPA ICR Number:** 2774.02

**Abstract:** In response to the FY2008 Consolidated Appropriations Act (H.R. 2764; Public Law 110-161) and under authority of the Clean Air Act (CAA), the EPA finalized a greenhouse gas reporting rule in October of 2009 (henceforth referred to as the Greenhouse Gas Reporting Program or GHGRP) (74 FR 56260; October 30, 2009). The rule, which became effective on December 29, 2009, requires reporting of greenhouse gases (GHGs) from certain large facilities and suppliers.

The GHGRP requires that sources emitting GHGs, supplying certain products that contain GHGs, or injecting carbon dioxide (CO<sub>2</sub>) underground in quantities above certain threshold levels of CO<sub>2</sub> equivalent (CO<sub>2</sub>e) monitor and report GHG data and other relevant information. Subsequent rules have promulgated requirements for additional facilities, and suppliers; provided clarification and corrections to existing requirements; and finalized confidential business information (CBI) determinations, amended recordkeeping requirements, and implemented an alternative verification approach.

This supporting statement addresses information collection activities that will be imposed by the “Greenhouse Gas Reporting Rule: Revisions and Confidentiality Determinations for Petroleum and Natural Gas Systems; Final Rule” (hereafter referred to as the “final revisions”).

The final revisions will amend the petroleum and natural gas systems source category of the Greenhouse Gas Reporting Rule to ensure that reporting is based on empirical data and accurately reflects total methane emissions and waste emissions from applicable facilities and allows owners and operators of applicable facilities to submit empirical emissions data to demonstrate the extent to which a charge is owed. These final revisions include improving the existing calculation, recordkeeping, and reporting requirements. These final revisions also establish and amend confidentiality determinations for the reporting of certain data elements to be added or substantially revised in these final revisions.

Compared with the estimated respondent burden identified in the information collection for the GHGRP currently approved by Office of Management and Budget (OMB), this final information collection will result in an average annual incremental burden of 1,902,792 hours and \$183,550,674 over the three years covered by this information collection, which includes an annual average of \$169,446,958 in labor costs, \$14,103,716 in operation and maintenance costs, and \$0 in capital costs. The annual average incremental burden to the EPA for this period is anticipated at 2,080 hours and \$126,730 (\$2021) over the three years covered by this information collection.

## **Supporting Statement A**

### **1. NEED AND AUTHORITY FOR THE COLLECTION**

*Explain the circumstances that make the collection of information necessary. Identify any legal or administrative requirements that necessitate the collection.*

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The EPA is finalizing this information collection under its existing Clean Air Act (CAA) authority provided in CAA section 114. As stated in the October 30, 2009 preamble to part 98 (74 FR 56260), CAA section 114(a)(1) provides the EPA broad authority to require the information to be gathered by part 98 because such data will inform and are relevant to the EPA's carrying out a wide variety of CAA provisions. Additionally, the FY2008 Consolidated Appropriations Act directed the EPA to "develop and publish a draft rule not later than 9 months after the date of enactment of this Act, and a final rule not later than 18 months after the date of enactment of this Act, to require mandatory reporting of greenhouse gas emissions above appropriate thresholds in all sectors of the economy of the United States."

The accompanying explanatory statement further directed the EPA to "use its existing authority under the Clean Air Act" to develop a GHG reporting rule. "The Agency is further directed to include in its rule reporting of emissions resulting from upstream production and downstream sources, to the extent that the Administrator deems it appropriate. The Administrator shall determine appropriate thresholds of emissions above which reporting is required, and how frequently reports shall be submitted to EPA.

Section 114 of the CAA provides the EPA authority to require the information mandated by the GHGRP because such data will inform and are relevant to future policy decisions. CAA section 114(a)(1) authorizes the Administrator to require emissions sources, persons subject to the CAA, or persons whom the Administrator believes may have necessary information to monitor and report emissions and provide such other information the Administrator requests for the purposes of carrying out any provision of the CAA. For these reasons, the Administrator may request that a person, on a one-time, periodic, or continuous basis establish and maintain records, make reports, install and operate monitoring equipment and, among other things, provide such information the Administrator may reasonably require.

These final revisions include improvements to existing calculation, recordkeeping, and reporting requirements. These final revisions also establish and amend confidentiality determinations for the reporting of certain data elements to be added or substantially revised in these final revisions. The final revisions will maintain the quality of the data collected under part 98 where continued collection of information assists in evaluation and support of EPA programs and policies. In some cases, the final revisions will improve the EPA's ability to assess compliance (by revising or adding recordkeeping or reporting elements that allow the EPA to more thoroughly verify GHG data and understand trends in emissions) and advance the ability of the GHGRP to provide access to quality data on GHG emissions (by adding new source categories to address potential gaps in reporting of emissions data for specific sectors, adding or revising calculation methodologies to reflect an improved understanding of emissions sources and end uses, or adding key data elements to improve the usefulness of the data). In conjunction with this action, the EPA is finalizing confidentiality determinations for the new and substantially revised data elements contained in these final revisions.

## 2. PRACTICAL UTILITY/USERS OF THE DATA

*Indicate how, by whom, and for what purpose the information is to be used. Except for a new collection, indicate the actual use the agency has made of the information received from the current collection.*

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The GHGRP collects information from facilities that directly emit GHGs or inject CO<sub>2</sub> underground and from suppliers of certain products that contain GHGs. Reporting entities use uniform methods for calculating emissions, which enables data to be compared and analyzed. The comprehensive GHG data reported directly from large facilities and suppliers across the country are easily accessible to the public via the EPA's online data publication tool, also known as FLIGHT (Facility Level Information on Greenhouse gases Tool) at: <https://ghgdata.epa.gov/ghgp/main.do>. FLIGHT is designed for the general public and allows users to view and sort GHG data for every reporting year starting with 2010 from over 8,000 entities in a variety of ways including by location, industrial sector, and type of GHG emitted. To support the needs of data users, all non-confidential data collected through the GHGRP are made available for download through Envirofacts (<https://www.epa.gov/enviro/>), a cross-EPA data publication website.

Data collected through the GHGRP complement the Inventory of U.S. Greenhouse Gas Emissions and Sinks (Inventory) and are used to significantly improve our understanding of key emissions sources by allowing the EPA to better reflect changing technologies and emissions from a wide range of industrial facilities.

The GHGRP data have also been used to support CAA policy in numerous ways. For example, GHGRP data on Petroleum and Natural Gas Systems (subpart W) were analyzed to inform targeted improvements to the 2016 New Source Performance Standards (NSPS) for the oil and gas industry and to update emission factor and activity data used for that proposal and the 2016 NSPS, as updated in the US GHG Inventory (83 FR 52056; October 15, 2018).

In addition, GHGRP data have been used to support voluntary programs. For example, GHGRP data are used by the Landfill Methane Outreach Program (LMOP) to supplement the LMOP Landfill and Landfill Gas Energy Project Database which includes data collected from LMOP Partners about landfill gas energy projects or potential for project development.

Several states also use GHGRP data to inform their own policymaking. For example, the state of Hawaii is using GHGRP data to establish an emissions baseline for each facility subject to their GHG Reduction Plan and to assess whether facilities meet their targets in future years. GHGRP data are also being used to improve estimates of GHG emissions internationally. Specifically, GHGRP data have been used to inform several of the updates to emission estimation methods included in the 2019 Refinement of the 2006 Intergovernmental Panel on Climate Change (IPCC) Guidelines for National GHG Inventories (the Refinement).

Lastly, the standardization of GHG data provides businesses with the necessary information to benchmark themselves against similar facilities, better understand their relative standing within their industry, and achieve and disseminate their environmental achievements. Businesses and other innovators can use the data to determine and track their GHG footprints, find cost- and fuel-saving efficiencies that reduce GHG emissions (e.g., through energy audits or other forms of assistance), and foster technologies to protect public health and the environment. In addition, transparent, public data on emissions allow for accountability of polluters to the public who bear the cost of the pollution. This

powerful data resource provides a critical tool for communities to identify nearby sources of GHGs and provide information to state and local governments.

The final revisions to part 98 include requirements for reporting of GHG data from additional emission sources/events (e.g., nitrogen removal units, produced water tanks, crankcase venting, other large release events, thief hatches on atmospheric storage tanks, and mud degassing), improvements to emissions estimation methodologies, revisions to existing methodologies (e.g., combustion slip, and malfunctioning dump valves on atmospheric storage tanks), and collection of data to support verification of GHG emissions and supply. Improvements to emissions estimation methodologies will improve the quality of the data collected under the program.

### **3. USE OF TECHNOLOGY**

*Describe whether, and to what extent, the collection of information involves the use of automated, electronic, mechanical, or other technological collection techniques or other forms of information technology, e.g., permitting electronic submission of responses, and the basis for the decision for adopting this means of collection. Also describe any consideration of using information technology to reduce burden.*

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The EPA has established a central repository of data for all respondents, the web-based Electronic Greenhouse Gas Reporting Tool (e-GGRT). Respondents report data electronically, and the EPA stores the data in the database. Facilities and suppliers subject to the GHGRP register online through the e-GGRT system. The e-GGRT system has an XML reporting schema that allows facilities to upload GHG data directly in lieu of using the guided web forms provided through e-GGRT. The XML reporting schema contains all data elements needed to comply with the GHGRP. The electronic reports submitted under the GHGRP are subject to the provisions of 40 CFR Part 3, specifying EPA systems to which electronic submissions must be made and the requirements for valid electronic signatures. Additionally, e-GGRT is designed to collect and store CBI.

The system follows Agency standards for design, security, data element and reporting format conformance, and accessibility. The EPA designed the database to minimize respondents' burden by integrating with existing data collection and data management systems, when feasible.

The EPA ensures data quality by conducting robust verification checks using both electronic software and manual review. The EPA contacts facilities when annual reports contain potential errors, and the statute requires that the facilities either resolve the error or explain that it is not an error in a timely manner. The EPA makes all data accessible to the public on a web-based, user-friendly publication tool called FLIGHT, as detailed in Section 2(b) of this document.

Under the final revisions, facilities will report all new data elements via e-GGRT.

### **4. EFFORTS TO IDENTIFY DUPLICATION**

*Describe efforts to identify duplication. Show specifically why any similar information already available cannot be used or modified for use for the purposes described in Item 2 above.*

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To determine whether this request duplicates other information collections, the EPA evaluated existing GHG programs and the GHG data currently available including: Federal programs within the United States, such as the Inventory; State and regional GHG reporting programs, Reporting protocols developed by nongovernmental organizations; and Programs from industrial trade organizations.

Documentation of the EPA's review of GHG monitoring protocols used by federal and state voluntary and mandatory GHG programs as well as GHG reporting rules can be found in the docket at EPA-HQ-OAR-2008-0508-0056. For further discussion on the relationship of the GHGRP to other programs, please refer to the preambles of each of the GHGRP rulemakings, the June 6, 2008 memorandum entitled "Review of Existing Programs" (which can be found in the docket at EPA-HQ-OAR-2008-0508-0052), and the January 27, 2009 memorandum entitled "Review of Existing State Greenhouse Gas Reporting Rules" (which can be found in the docket at EPA-HQ-OAR-2008-0508-0054).

The final revisions include improvements to the calculation, monitoring, and reporting requirements that will incorporate new data or updated scientific knowledge; reflect new emissions sources for which data has not previously been collected; improve analysis and verification of collected data; and provide additional data to complement or inform other EPA programs. Based on this evaluation, this information collection request does not duplicate other information collections.

## **5. MINIMIZING BURDEN ON SMALL BUSINESSES AND SMALL ENTITIES**

*If the collection of information impacts small businesses or other small entities, describe any methods used to minimize burden.*

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This information collection will not have a significant economic impact on a substantial number of small entities. The small entities subject to the requirements of this action are small businesses in the petroleum and natural gas industry. Small entities include small businesses, small organizations, and small governmental jurisdictions. The EPA has determined that some small entities are affected because their production processes emit GHGs that must be reported.

In the implementation of the GHGRP, the EPA previously determined thresholds that reduced the number of small businesses reporting. The final revisions will not revise the threshold for existing subpart W reporters; therefore, we do not expect a significant number of small entities will be newly impacted under the final rule revisions.

The rule amendments predominantly apply to existing reporters and are amendments that will expand reporting to include new emission sources/events; add, remove, or refine emissions estimation methodologies to improve the accuracy of reported emission data; for the Onshore Petroleum and Natural Gas Production and Onshore Petroleum and Natural Gas Gathering and Boosting segments, revise reporting of emissions from a basin level to a site level; implement requirements to collect new or revised data; clarify or update provisions; or streamline or simplify requirements, for example, by increasing flexibility for reporters or removing redundant requirements.

## **6. CONSEQUENCES OF LESS FREQUENT COLLECTION**

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*Describe the consequence to Federal program or policy activities if the collection is not conducted or is conducted less frequently, as well as any technical or legal obstacles to reducing burden.*

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Annual reporting of the data is necessary to ensure that the Agency's objectives for the GHGRP are met. Annual reporting is critical for assessing year-to-year variations in emissions both at the facility and sector level. With less frequent reporting, the EPA will be unable to discern multi-year trends. As the Agency evaluates potential GHG emission reduction opportunities, it is critical to be able to analyze up-to-date, multi-year data for all sectors covered by the program. For example, the GHGRP collects critical information necessary to evaluate potential GHG reduction approaches, such as number of facilities in a sector, production or capacity of each facility, abatement technologies used across a sector, number of facilities using continuous emission monitoring systems, and chemical-specific GHG emission information. These data are essential for understanding the sources that will be impacted by potential regulations, emissions monitoring approaches and abatement technologies currently employed within a sector, and the general emissions profile of the industry.

With annual data, stakeholders can monitor changes in facility emissions over time with respect to comparable facilities in the industry. Annual reporting also lines up with the reporting frequency of all existing State GHG reporting programs as well as other Agency and State programs that require reporting of environmental data. This reporting frequency remains the same in these final revisions to part 98.

The frequency with which facilities and suppliers subject to the GHGRP monitor, sample, or measure data varies from weekly to annually. We have maintained collection frequencies that are necessary to ensure adequate data quality and are designed to match the variability of activities conducted by the source category.

## **7. GENERAL GUIDELINES**

*Explain any special circumstances that require the collection to be conducted in a manner inconsistent with OMB guidelines.*

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This collection of information is consistent with all other OMB guidelines under 5 CFR 1320.5.

## **8. PUBLIC COMMENT AND CONSULTATIONS**

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### **8a. Public Comment**

*If applicable, provide a copy and identify the date and page number of publication in the Federal Register of the Agency's notice, required by 5 CFR 1320.8(d), soliciting comments on the information collection prior to submission to OMB. Summarize public comments received in response to that notice and describe actions taken by the Agency in response to these comments. Specifically address comments received on cost and hour burden.*

A public notice of this collection is provided in the Federal Register notice of "Greenhouse Gas Reporting Rule: Revisions and Confidentiality Determinations for Petroleum and Natural Gas Systems; Final Rule".

## **8b. Consultations**

*Describe efforts to consult with persons outside the Agency to obtain their views on the availability of data, frequency of collection, the clarity of instructions and recordkeeping, disclosure, or reporting format (if any), and on the data elements to be recorded, disclosed, or reported. Consultation with representatives of those from whom information is to be obtained or those who must compile records should occur at least once every 3 years - even if the collection of information activity is the same as in prior periods. There may be circumstances that may preclude consultation in a specific situation. These circumstances should be explained.*

The EPA engages in consultations with reporters on a regular basis. Since the GHGRP's inception, the EPA has conducted over 140 training webinars reaching over 17,000 people and has responded to approximately 40,000 questions received by our help desk. The EPA also communicates with GHGRP reporters directly after every data submission deadline during our annual verification period. The program maintains an open-door policy and has consulted on numerous occasions with trade associations as well as individual companies with issues or concerns. As a result of these consultations, the EPA has identified specific sections of the rule language that could be clarified or did not have the intended effect.

The EPA has previously promulgated amendments to the rule to resolve these issues and to correct technical and editorial errors that have been identified. Some of these amendments affected burden, but most amendments reduced burden or did not affect it. In addition to correcting and clarifying existing requirements, the EPA has amended the GHGRP in other ways based on public comments and stakeholder feedback, (e.g., promulgated rulemakings that re-propose certain subparts, added requirements for new facilities and suppliers, and added reporting requirements that provide information about parent companies).

To monitor the usefulness of this data collection, the GHGRP staff are in regular communication with other EPA programs that use the data, such as voluntary and mandatory GHG reduction programs within the Office of Air and Radiation. The EPA also consults regularly with state, local, and tribal environmental control agencies, environmental groups, research entities, and other nongovernmental organizations.

In the current action, the EPA is primarily finalizing amendments that will improve the quality of data collected through the GHGRP.

## **9. PAYMENTS OR GIFTS TO RESPONDENTS**

*Explain any decisions to provide payments or gifts to respondents, other than remuneration of contractors or grantees.*

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## **10. ASSURANCE OF CONFIDENTIALITY**

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*Describe any assurance of confidentiality provided to respondents and the basis for the assurance in statute, regulation, or Agency policy. If the collection requires a systems of records notice (SORN) or privacy impact assessment (PIA), those should be cited and described here.*

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Data collected under the GHGRP must be made available to the public unless the data qualify for CBI treatment under the CAA and EPA regulations. The EPA typically makes confidentiality determinations under the CAA on a case-by-case basis under 40 CFR 2.301. Due to the large numbers of entities reporting under the GHGRP and the large number of data reporting elements, the EPA concluded that case-by-case determinations will not result in a timely release of emissions data and other non-CBI data (75 FR 39094; July 7, 2010). Therefore, the EPA has published confidentiality determinations for most information reported under the GHGRP (76 FR 30782; May 26, 2011, 77 FR 48072; August 13, 2012, 77 FR 51477; August 24, 2012, 78 FR 68162; November 13, 2013, 78 FR 71904; November 29, 2013, 79 FR 3507; January 22, 2014, 79 FR 63750; October 24, 2014, 79 FR 70352; November 25, 2014, 79 FR 73750; December 11, 2014, 80 FR 64262; October 22, 2015, 81 FR 86490; November 30, 2016, and 81 FR 89188; December 9, 2016). These confidentiality determinations specify which data reporting elements in part 98: (1) are CBI, (2) are non-CBI, and (3) are emissions data (i.e., ineligible for CBI protection). All data determined by the EPA to be CBI are safeguarded in accordance with regulations in 40 CFR Chapter 1, Part 2, Subpart B.

In this action, the EPA is finalizing confidentiality determinations for the new and substantially revised data elements contained in the amendments; the EPA is also finalizing confidentiality determinations for certain existing data elements for which a confidentiality determination has not previously been proposed or finalized. By proposing confidentiality determinations prior to data reporting, the EPA provided potential reporters an opportunity to submit comments, particularly comments identifying data they consider sensitive and their rationales and supporting documentation. This opportunity to submit comments is the same opportunity that is afforded to submitters of information in case-by-case confidentiality determinations and provided an opportunity to rebut the agency's proposed determinations prior to finalization. The EPA evaluated all comments received on the proposed rulemaking, but no comments were received, including claims of confidentiality and information substantiating such claims. Therefore, these confidentiality determinations are being finalized.

## **11. JUSTIFICATION FOR SENSITIVE QUESTIONS**

*Provide additional justification for any questions of a sensitive nature, such as sexual behavior and attitudes, religious beliefs, and other matters that are commonly considered private. This justification should include the reasons why the Agency considers the questions necessary, the specific uses to be made of the information, the explanation to be given to persons from whom the information is requested, and any steps to be taken to obtain their consent.*

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The revisions to calculation, monitoring, reporting and recordkeeping requirements in these final revisions to part 98 do not include sensitive questions.

## **12. RESPONDENT BURDEN HOURS & LABOR COSTS**

Provide estimates of the hour burden of the collection of information. The statement should:

- Indicate the number of respondents, frequency of response, annual hour burden, and an explanation of how the burden was estimated. Generally, estimates should not include burden hours for customary and usual business practices.
- If this request for approval covers more than one form, provide separate hour burden estimates for each form and the aggregate the hour burdens.
- Provide estimates of annualized cost to respondents for the hour burdens for collections of information, identifying and using appropriate wage rate categories. The cost of contracting out or paying outside parties for information collection activities should not be included here. Instead, this cost should be included as O&M costs under non-labor costs covered under question 13.

The respondents in this information collection include owners and operators of facilities that must report their GHG emissions to the EPA to comply with the GHGRP requirements for petroleum and natural gas systems.

### 12a. Respondents/NAICS Codes

The petroleum and natural gas sector is listed below by the corresponding subpart of the rule and their NAICS codes for reference. The NAICS codes are not exhaustive, but rather provide a list of facilities likely to be affected by the final revisions and confidentiality determinations.

Table 1. Examples of Affected Entities by Category

Subpart	NAICS Codes	
W. Petroleum and Natural Gas Systems	486210	Pipeline transportation of natural gas.
	221210	Natural gas distribution facilities.
	211120	Crude petroleum extraction.
	211130	Natural gas extraction.

### 12b. Information Requested

#### Data Items

This section characterizes the information being collected under the final rule, as well as the activities associated with developing, submitting, or filing that information.

The new information to be collected under the final revisions include new data elements from new emissions sources and from the expansion of the number of industry segments reporting existing emissions sources.

#### Reporting and Recordkeeping Requirements

Respondents must report the data items specified according to the requirements of 40 CFR 98.236 and the recordkeeping requirements of 40 CFR 98.237, as provided in the currently approved ICR for the GHGRP (EPA ICR No. 2300.18). In this rulemaking, the EPA is including additional emission

sources/events (e.g., nitrogen removal units, produced water tanks, other large release events, thief hatches on atmospheric tanks, crankcase venting, and mud degassing), improvements to emissions estimation methodologies (e.g., dump valves on atmospheric tanks and combustion slip), and collection of data to support verification of GHG emissions. The final revisions will include improvements to emissions estimation methodologies, which will improve the quality of the data collected under the program.

Respondents must maintain records associated with the data items specified according to the requirements of 40 CFR 98.3 and the sector-specific recordkeeping requirements of each subpart. These records are discussed in the ICR Renewal for the Greenhouse Gas Reporting Program (EPA ICR No. 2300.18). In this rule, the EPA is not finalizing additional records.

### **12c. Respondent Activities**

The final revisions will require gathering of new information, calculating new emissions, conducting monitoring of emission sources/events, and reporting new data elements associated with the required activities being finalized. All activities with associated costs are shown in the Appendix. For each related data element required in the final revisions to 40 CFR 98.236, all respondents will:

1. Submit the value via the web-based Electronic Greenhouse Gas Reporting Tool (e-GGRT) as part of the annual report currently required under part 98.
2. Maintain records of reported data for a minimum of three years.

All respondents will be required to calculate the new data elements using empirical data detailed in the final revisions to 40 CFR 98.233

### **Collection Schedule**

For each reporting year, facilities collect data and calculate emissions at varying frequencies, as described in the GHGRP, and summarized in OMB Control No. 2060-0629, ICR No. 2300.18. All data elements under this information collection will be submitted no more frequently than an annual basis as part of the respondent's annual report required under part 98.

### **12d. Respondent Burden Hours and Labor Costs**

This section presents the EPA's estimates of the burden and costs to respondents associated with the activities described in section 4(b) as well as the federal burden hours and costs associated with the activities described in section 5(a). The EPA estimates that, over the three years covered by this request, the average total respondent burden associated with this reporting will be 1,902,792 hours per year and the cost of all respondents of the information collection will increase an average of \$183,550,674 per year, which includes \$14,103,717 in non-labor costs per year.

Final revisions include the following:

- Expanding reporting to include new emission sources/events, to accurately reflect total methane in emission reports reported to the GHGRP.
- Adding emissions calculation methodologies to incorporate additional empirical data and improve the accuracy of reported emission data.
- Refining existing emissions calculation methodologies to reflect an improved understanding of emissions or to incorporate more recent research on GHG emissions to improve the accuracy of reported emission data.
- Removing calculation methodologies in cases where it was determined that more accurate calculation methodologies were available.
- Changing the basis for reporting emissions from the Onshore Petroleum and Natural Gas Production industry segment to the well-pad instead of the facility level.
- Changing the basis for reporting emissions from the Onshore Petroleum and Natural Gas Gathering and Boosting industry segment to the site instead of the basin level, sub-basin level, or county level.
- Adding data elements related to emissions from plugged wells.
- Adding or clarifying throughput related data elements for subpart W industry segments.
- Revising data elements or recordkeeping where the current requirements are redundant or alternative data will be more appropriate for verification of emission data.
- Clarifying requirements that reporters have previously found vague to ensure that accurate data are being collected, and editorial corrections or harmonizing changes that will improve the public's understanding of the rule.

The Appendix details by emission source/event and industry segment, the respondent activities required by the revised provisions and how much each activity is expected to cost, by labor, O&M, and capital.

Labor costs are tabulated for respondents to gather data, conduct sampling, conduct measurements, conduct monitoring, run simulation software, count equipment, conduct inspections, and calculate emissions.

Operation and maintenance costs are tabulated for respondents to hire contractors to conduct measurements on a regular basis, such as annual compressor measurements and periodic flow measurements costs. These costs also include the costs for costs for labs to analyze quarterly samples for dehydrators, acid gas removal units, and nitrogen removal units.

No new capital costs were tabulated for respondents related to the final revisions.

Finally, as a result of these final revisions, 93 new sources in three industry segments (3 in Onshore Natural Gas Transmission Compression, 47 in Onshore Petroleum and Natural Gas Production, and 43 in Onshore Natural Gas Processing) are expected to become subject to subpart W of part 98. Labor and O&M costs are included to comply with the reporting and recordkeeping costs detailed in EPA ICR No. 2300.18.

Section 6(a) of this ICR provides estimates of burden (hours) for all respondent types. Section 6(b) contains estimates of respondent costs for the information collection. Section 6(c) summarizes federal burden and costs. Section 6(d) describes the respondent universe and the total burden and cost

of this collection to respondents. Section 6(e) presents the bottom-line burden and cost. Section 6(f) provides reasons for any change in burden. The burden statement for this information collection is in section 6(g).

### Estimating Respondent Burden

Respondent burden estimates are presented in Exhibit 6.1. The EPA estimates that the total annual burden to all affected entities will increase by 1,902,792 hours per year, on average, over the three years covered by this information collection.

Exhibit 6.1 of this document presents the aggregate and average annual respondent burden. For the details, see the Appendix.

Exhibit 6.1. Summary of Annual Respondent Burden and Cost of Final Revisions for the Greenhouse Gas Reporting Rule, Years 1-3

Number of Respondents	Total Labor Hours	Labor Costs	Non-Labor Costs (Annualized Capital/Startup and O&M)	Total Costs
3,077	1,902,792	\$169,446,958	\$14,103,716	\$183,550,674

### Estimating Respondent Costs

Costs to respondents associated with this information collection include labor costs (i.e., the cost of labor by facility staff to meet the rule’s information collection requirements) and non-labor costs (e.g., the cost of purchasing and installing monitoring equipment or contractor costs associated with providing the required information).

To calculate labor costs, the EPA used an approach consistent with the ICR associated with the GHGRP currently approved by OMB, updated to incorporate 2021 BLS labor rates. Sector-specific labor rates are used for the oil and gas industry (subpart W): \$132.31 for senior managers, \$123.46 for middle managers, \$110.10 for engineers, and \$77.99 for technicians. These labor rates were applied to the total burden estimates for each labor category to obtain the total costs for each subpart. Labor and non-labor costs (capital and O&M) are summarized in Exhibit 6.1. More details are in the Appendix.

The EPA estimates that the total annual labor costs to all affected non-federal entities will average \$169.4 million over the three years covered by this information collection. Exhibit 6.1 presents the aggregate burden by year for all subpart W industry segments.

Exhibit 6.2 presents the annual average burden and cost for each industry segment over the first three years of the information collection. For a more detailed summary of the annual costs by industry segment, see Appendix 1.

**Exhibit 6.2. Annual Average Burden Over the First Three Years of the Information Collection, by Industry Segment**

Industry Segment	Annual Number of Respondents	Total Hours	Annual Average Burden Per Respondent	Labor Costs	O&M and Capital Costs	Total Costs
Onshore Petroleum and Natural Gas Production	777	1,618,079	2,082	\$142,067,785	\$3,693,563	\$145,761,348
Offshore Petroleum and Natural Gas Production	141	34	0	\$3,922	\$0	\$3,922
Onshore Petroleum and Natural Gas Gathering and Boosting	361	117,979	327	\$10,767,359	\$1,319,919	\$12,087,278
Onshore Natural Gas Processing	515	121,589	236	\$11,873,365	\$2,776,745	\$14,650,110
Onshore Natural Gas Transmission Compression	1,008	38,716	38	\$4,064,345	\$5,891,787	\$9,956,131
Natural Gas Transmission Pipeline	53	881	17	\$89,867	\$187	\$90,054
Underground Natural Gas Storage	68	3,144	46	\$319,173	\$370,275	\$689,448
LNG Import and Export Equipment	11	563	51	\$51,729	\$26,350	\$78,079
LNG Storage	7	262	37	\$29,922	\$24,890	\$54,812
Natural Gas Distribution	164	1,547	9	\$179,491	\$0	\$179,491
<b>TOTAL</b>	<b>3,077</b>	<b>1,902,792</b>	<b>618</b>	<b>\$169,446,958</b>	<b>\$14,103,716</b>	<b>\$183,550,674</b>

**Estimating the Respondent Universe and Total Burden and Costs**

The estimated number of respondents that will perform the required activities under this information collection is presented in the Appendix. The number of respondents is not expected to vary in each year.

**Bottom Line Burden Hours and Costs**

The bottom-line burden hours and costs are shown in Exhibit 6.4.

### Exhibit 6.4 Total Burden and Costs Per Year

	Annual Average
Respondent Costs	
Number of Respondents	3,077
Total Respondent Labor Hours	1,902,792
Total Respondent Labor Costs	\$169,446,958
Non-labor (Capital and O&M) Costs	\$14,103,716
Total Respondent Costs	\$183,550,674
Agency Costs	
Total Agency Burden Hours	2,080
Total Agency Labor Costs	\$126,730
Total Burden Hours (Respondents + Agency)	1,904,872
Bottom Line Costs (Respondents + Agency)	\$183,677,404

### 13. RESPONDENT CAPITAL AND O&M COSTS

Provide an estimate for the total annual cost burden to respondents or record keepers resulting from the collection of information. (Do not include the cost of any hour burden already reflected on the burden worksheet).

The cost estimate should be split into two components: (a) a total capital and start-up cost component (annualized over its expected useful life) and (b) a total operation and maintenance and purchase of services component. The estimates should consider costs associated with generating, maintaining, and disclosing or providing the information. Include descriptions of methods used to estimate major cost factors including system and technology acquisition, expected useful life of capital equipment, the discount rate(s), and the period over which costs will be incurred. Capital and start-up costs include, among other items, preparations for collecting information such as purchasing computers and software; monitoring, sampling, drilling, and testing equipment; and record storage facilities. If cost estimates are expected to vary widely, agencies should present ranges of cost burdens and explain the reasons for the variance. The cost of purchasing or contracting out information collections services should be a part of this cost burden estimate.

Generally, estimates should not include purchases of equipment or services, or portions thereof, made: (1) prior to October 1, 1995, (2) to achieve regulatory compliance with requirements not associated with the information collection, (3) for reasons other than to provide information or keep records for the government, or (4) as part of customary and usual business or private practices.

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XXXX

### 14. AGENCY COSTS

Provide estimates of annualized costs to the Federal government. Also, provide a description of the method used to estimate cost, which should include quantification of hours, operational expenses (such as equipment, overhead, printing, and support staff), and any other expense that would not have been incurred without this collection of information.

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#### 14a. Agency Activities

EPA activities include the monitoring and verification of emission reports, database and software maintenance, communication and outreach, and program evaluation. This ICR reflects an incremental agency burden for program operation activities, which include monitoring and verification of emission reports. Specifically, the additional burden for the review of new data elements reported was estimated.

#### 14b. Agency Labor Cost

This section describes the burden and cost to the federal government associated with this information collection, and the details are provided in Appendix A. Federal activities under this information collection include EPA oversight of the reporting program and required reporting by federally owned GHG generating facilities.

EPA activities associated with the GHGRP include oversight and implementation of the reporting program, e.g., monitoring and verification of emission reports, database and software maintenance, communication and outreach, and program evaluation. For the rule, the incremental burden to the EPA is associated with the additional time to review the new and substantially revised data elements that will be reported (see section 4(b)(i)). There are no non-labor costs associated with the changes.

To develop EPA labor costs, the EPA estimated the average hourly labor rate for salary and overhead and benefits for Agency staff to be \$60.93. To derive this figure, the EPA multiplied the hourly compensation at GS-13, Step 1 on the 2021 GS pay scale (\$38.08) by the standard government benefits multiplication factor of 1.6 to account for overhead and benefits.<sup>1</sup>

The total burden and costs to the federal government from the new and substantially revised data elements are anticipated to average 2,080 hours and \$126,730 (\$2021) per year over the three years covered by this information collection, which represents one additional full-time employee. Exhibit 6.3 presents the annual Agency burden and cost.

#### Exhibit 6.3 Annual Agency Burden and Cost Per Year

Total Annual Burden Hours	Labor Costs (\$2021)
2,080	\$126,730

#### 15) REASONS FOR CHANGE IN BURDEN

*Explain the reasons for any program changes or adjustments reported in the burden or capital/O&M cost estimates.*

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This section presents the change in burden based on the final revisions and explains the reasons for the change in burden.

<sup>1</sup> [https://www.opm.gov/policy-data-oversight/pay-leave/salaries-wages/salary-tables/pdf/2021/GS\\_h.pdf](https://www.opm.gov/policy-data-oversight/pay-leave/salaries-wages/salary-tables/pdf/2021/GS_h.pdf)

The reasons for the change in burden are mainly due to the addition of new emissions sources, new reporting elements, and new calculation methodologies. The EPA's final revisions to Part 98 result in an increase in costs.

This rule will result in an overall average annual incremental burden of 1,902,792 hours and \$183,550,674 over the three years covered by this information collection.

**16) PUBLICATION OF DATA**

*For collections of information whose results will be published, outline plans for tabulation and publication. Address any complex analytical techniques that will be used. Provide the time schedule for the entire project, including beginning and ending dates of the collection of information, completion of report, publication dates, and other actions.*

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Results will not be published.

**17) DISPLAY OF EXPIRATION DATE**

*If seeking approval to not display the expiration date for OMB approval of the information collection, explain the reasons that display would be inappropriate.*

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The expiration date for OMB approval will be displayed.

**18) CERTIFICATION STATEMENT**

*Explain each exception to the topics of the certification statement identified in "Certification for Paperwork Reduction Act Submissions."*

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There are no exception to the topics of the certification statement.

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**Table 1. New, Revised, or Removed Data Elements by Source Category**

<b>Subpart</b>	<b>Citation</b>	<b>Data Element(s) Required to be Reported</b>	<b>Change or Revision</b>	<b>Change in Burden</b>
C – General Stationary Fuel Combustion	98.36(c)(1)(vi)	Annual CO <sub>2</sub> emissions from combustion of all fossil fuels combined (in metric tons) if any of the units in an aggregation of units burn both fossil fuels and biomass.	Removed	Decrease – Respondents will no longer be required to calculate the data element and submit the value via e-GGRT as part of the annual report. This will affect ~149 respondents annually.
	98.36(c)(3)(vi)	Annual CO <sub>2</sub> emissions from combustion of all fossil fuels combined (in metric tons) if any of the units in a common pipe configuration burn both fossil fuels and biomass.	Removed	Decrease – Respondents will no longer be required to calculate the data element and submit the value via e-GGRT as part of the annual report. This will affect ~82 respondents annually.
	98.33(e)	Starting in reporting year (RY) 2022, mandatory reporting for tire combustors of the metric tons of biogenic CO <sub>2</sub> emissions separately from the combined combustion of biomass and fossil fuels.	New	Increase – requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This will affect ~28 respondents annually.
G – Ammonia Manufacturing	98.76(b)(16)	If a CEMS is not used to measure emissions, annual quantity of excess hydrogen produced that is not consumed through the production of ammonia (metric tons).	New	Increase – requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element applies to all respondents subject to subpart G that do not use a

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				CEMS and will affect ~29 reporters annually.
H - Cement Production	98.86(a)(4)	Annual arithmetic average of total CaO content of clinker at the facility (weight fraction) (CEMS)	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element applies to all respondents subject to subpart H that use a CEMS and will affect ~90 reporters annually.
	98.86(a)(5)	Annual arithmetic average of non-calcined CaO content of clinker at the facility (weight fraction) (CEMS)	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element applies to all respondents subject to subpart H that use a CEMS and will affect ~90 reporters annually
	98.86(a)(6)	Annual arithmetic average of total MgO content of clinker at the facility (weight fraction) (CEMS)	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element applies to all respondents subject to subpart H that use a CEMS and will affect ~90 reporters annually
	98.86(a)(7)	Annual arithmetic average of non-calcined MgO content of clinker at the facility (weight fraction) (CEMS)	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element applies to all respondents

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				subject to subpart H that use a CEMS and will affect ~90 reporters annually
H - Cement Production	98.86(a)(12)	Annual facility CKD not recycled to the kiln(s) (tons) (CEMS)	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element applies to all respondents subject to subpart H that use a CEMS and will affect ~90 reporters annually
	98.86(b)(19)	Annual arithmetic average of total CaO content of clinker at the facility (weight fraction) (No CEMS)	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element applies to all respondents subject to subpart H that do not use a CEMS and will affect ~4 reporters annually
	98.86(b)(20)	Annual arithmetic average of non-calcined CaO content of clinker at the facility (weight fraction) (No CEMS)	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element applies to all respondents subject to subpart H that do not use a CEMS and will affect ~4 reporters annually
	98.86(b)(21)	Annual arithmetic average of total MgO content of clinker at the facility (weight fraction) (No CEMS)	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element applies to all respondents

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				subject to subpart H that do not use a CEMS and will affect ~4 reporters annually
H - Cement Production	98.86(b)(22)	Annual arithmetic average of non-calcined MgO content of clinker at the facility (weight fraction) (No CEMS)	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element applies to all respondents subject to subpart H that do not use a CEMS and will affect ~4 reporters annually
	98.86(b)(23)	Annual arithmetic average of total CaO content of CKD not recycled to the kiln(s) at the facility (weight fraction) (No CEMS)	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element applies to all respondents subject to subpart H that do not use a CEMS and will affect ~4 reporters annually
	98.86(b)(24)	Annual arithmetic average of non-calcined CaO content of CKD not recycled to the kiln(s) at the facility (weight fraction) (No CEMS)	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element applies to all respondents subject to subpart H that do not use a CEMS and will affect ~4 reporters annually
	98.86(b)(25)	Annual arithmetic average of total MgO content of CKD not recycled to the kiln(s) at the facility (weight fraction) (No CEMS)	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element applies to all respondents

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				subject to subpart H that do not use a CEMS and will affect ~4 reporters annually
	98.86(b)(26)	Annual arithmetic average of non-calcined MgO content not recycled to the kiln(s) at the facility (weight fraction) (No CEMS)	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element applies to all respondents subject to subpart H that do not use a CEMS and will affect ~4 reporters annually
H - Cement Production	98.86(b)(27)	Annual facility CKD not recycled to the kiln(s) (tons) (No CEMS)	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element applies to all respondents subject to subpart H that do not use a CEMS and will affect ~4 reporters annually
	98.86(b)(28)	The amount of raw kiln feed consumed annually at the facility (tons, dry basis) (No CEMS)	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element applies to all respondents subject to subpart H that do not use a CEMS and will affect ~4 reporters annually
I - Electronics Manufacturing	98.96(o)	For all hydrocarbon-fuel-based emissions control systems that are used to control emissions from tools that use either NF <sub>3</sub> as an input gas in remote plasma clean processes or F <sub>2</sub>	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element applies to reporters that use

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		<p>as an input gas in any process type or sub-type, certification that the rate of conversion from F<sub>2</sub> to CF<sub>4</sub> is &lt;0.1% and that the systems are installed, operated, and maintained in accordance with the directions of the emissions control system manufacturer, unless the emissions control system is included in the count of systems not certified to not form CF<sub>4</sub> in Equation I-9.</p>		<p>hydrocarbon-fuel-based emissions control systems to control emissions from tools that use either NF<sub>3</sub> as an input gas in remote plasma cleaning processes or F<sub>2</sub> as an input gas in any process, and that assume that one or more of those systems do not form CF<sub>4</sub> from F<sub>2</sub>. No reporters are anticipated to add certification for existing equipment, and no existing reporters are anticipated to apply for certification in the first three years of this rulemaking. Any certification costs would be included in the existing cost of new equipment. This change will affect 0 reporters annually.</p>
I – Electronics Manufacturing	98.96(o)	<p>For all hydrocarbon-fuel-based emissions control systems that are used to control emissions from tools that use either NF<sub>3</sub> as an input gas in remote plasma clean processes or F<sub>2</sub> as an input gas in any process type or sub-type, if you make the certification based on your own testing, you must certify that you tested the model of the system according to the requirements specified in 98.94(e).</p>	New	<p>Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element applies to reporters that use hydrocarbon-fuel-based emissions control systems to control emissions from tools that use either NF<sub>3</sub> as an input gas in remote plasma cleaning processes or F<sub>2</sub> as an input gas in any process, and that assume that one or more of those systems do not form CF<sub>4</sub> from F<sub>2</sub>. No reporters are anticipated to add certification for existing equipment, and no existing reporters are</p>

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Subpart	Citation	Data Element(s) Required to be Reported	Change or Revision	Change in Burden
	98.96(o)	For all hydrocarbon-fuel-based emissions control systems that are used to control emissions from tools that use either NF <sub>3</sub> as an input gas in remote plasma clean processes or F <sub>2</sub> as an input gas in any process type or sub-type, if you make the certification based on testing by the emissions control system manufacturer, you must provide documentation from the emissions control system manufacturer that the rate of conversion from F <sub>2</sub> to CF <sub>4</sub> is <0.1% when tested according to the requirements specified in 98.94(e).	New	<p>anticipated to apply for certification in the first three years of this rulemaking. Any certification costs would be included in the existing cost of new equipment. This change will affect 0 reporters annually.</p> <p>Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element applies to reporters that use hydrocarbon-fuel-based emissions control systems to control emissions from tools that use either NF<sub>3</sub> as an input gas in remote plasma cleaning processes or F<sub>2</sub> as an input gas in any process, and that assume that one or more of those systems do not form CF<sub>4</sub> from F<sub>2</sub>. No reporters are anticipated to add certification for existing equipment, and no existing reporters are anticipated to apply for certification in the first three years of this rulemaking. Any certification costs would be included in the existing cost of new equipment. This change will affect 0 reporters annually.</p>
I – Electronics Manufacturing	98.96(p)(2)	Abatement systems through which fluorinated GHGs or N <sub>2</sub> O flow at your facility and for which you are claiming destruction or removal efficiency: The	Revised	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This

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		basis of the destruction or removal efficiency being used (default, manufacturer verified, or site-specific measurement according to §98.94(f)(4)(i)) for each process sub-type or process type and for each gas.		data element applies to reporters that claim destruction or removal efficiencies. This change will affect ~22 reporters annually.
	98.96(q)(3)	Destruction or removal efficiency value at which each abatement system is certified for the fluorinated GHG or N <sub>2</sub> O abatement.	New	Increase – requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element applies to all respondents subject to subpart I with abatement systems through which fluorinated GHGs or N <sub>2</sub> O flow at the facility and for which they are reporting controlled emissions. This change will affect ~ 47 reporters annually.
I – Electronics Manufacturing	98.96(w)(2)	For each stack systems reported as having process fluorinated GHG emitted, indicate whether the stack system is among those for which stack testing was performed as per §98.93(i)(3) or not performed as per §98.93(i)(2).	Removed	No change – Respondents have never used the stack testing methodology, therefore, no change in burden is anticipated.
	98.96(y)(2)(iv)	For any utilization or by-product formation rate, the method used to calculate the reported utilization and	New	Increase – requires respondents to ascertain the data element using readily available data and submit the value via e-

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		by-product formation rates.		GGRT as part of the triennial technology report, which is submitted with the annual report for RY2027 and submitted every five years thereafter. This data element applies to all respondents subject to subpart I with semiconductor manufacturing facility that manufactures wafers greater than 150 mm and emits more than 40,000 metric ton CO <sub>2</sub> e of GHG emissions. This change will affect ~ 28 reporters annually.
	98.96(y)(2)(iv)	For any utilization or by-product formation rate data submitted, provide a unique record number for each data set used to calculate the reported utilization and by-product formation rates.	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the triennial technology report, which is submitted with the annual report for RY2027 and submitted every five years thereafter. This data element applies to all respondents subject to subpart I with semiconductor manufacturing facility that manufactures wafers greater than 150 mm and emits more than 40,000 metric ton CO <sub>2</sub> e of GHG emissions. This change will affect ~ 28 reporters annually.
I - Electronics Manufacturing	98.96(y)(2)(iv)	For any destruction or removal efficiency data submitted, indicate whether the abatement system is	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-

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		specifically designed to abate the gas measured under the operating condition used for the measurement.		GGRT as part of the triennial technology report, which is submitted with the annual report for RY2027 and submitted every five years thereafter. This data element applies to all respondents subject to subpart I with semiconductor manufacturing facility that manufactures wafers greater than 150 mm and emits more than 40,000 metric ton CO <sub>2</sub> e of GHG emissions. This change will affect ~ 28 reporters annually.
	98.96(y)(2)(iv)	For any utilization or byproduct formation rate data submitted, if you choose to use an additional alternative calculation methodology to calculate and report the input gas emission factors and by-product formation rates, you must provide a complete, mathematical description of the alternative method used.	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the triennial technology report, which is submitted with the annual report for RY2027 and submitted every five years thereafter. This data element applies to all respondents subject to subpart I with semiconductor manufacturing facility that manufactures wafers greater than 150 mm and emits more than 40,000 metric ton CO <sub>2</sub> e of GHG emissions. This change will affect ~ 28 reporters annually.
N - Glass Production	98.146(a)(2)	Annual quantity of glass produced (tons) by glass type from each continuous glass melting furnace	Revised	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-

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		(CEMS)		GGRT as part of the annual report. This data element applies to all respondents subject to subpart N that use a CEMS and will affect ~ 3 reporters annually.
	98.146(a)(2)	Annual quantity of glass produced (tons) by glass type from all furnaces combined (CEMS)	Revised	Increase – requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element applies to all respondents subject to subpart N that use a CEMS and will affect ~ 3 reporters annually.
	98.146(b)(3)	Annual quantity of glass produced (tons), by glass type, from each continuous glass melting (No CEMS)	Revised	Increase – requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element applies to all respondents subject to subpart N that do not use a CEMS and will affect ~ 99 reporters annually.
	98.146(b)(3)	Annual quantity of glass produced (tons), by glass type, from all furnaces combined (No CEMS)	Revised	Increase – requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element applies to all respondents subject to subpart N that do not use a CEMS and will affect ~ 99 reporters annually.
N – Glass	98.146(a)(3),	Annual quantity of glass produced	New	Increase – requires respondents to

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<b>Subpart</b>	<b>Citation</b>	<b>Data Element(s) Required to be Reported</b>	<b>Change or Revision</b>	<b>Change in Burden</b>
Production	98.146(b)(4)	(tons) by glass type from each continuous glass melting furnace.		ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element applies to all respondents subject to subpart N and will affect ~101 reporters annually.
	98.146(a)(3), 98.146(b)(4)	Annual quantity (tons) of recycled scrap glass (cullet) charged to all furnaces combined.	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element applies to all respondents subject to subpart N and will affect ~101 reporters annually.
	98.146(b)(9)	Annual quantity of glass produced (tons), by glass type, from each continuous glass melting (No CEMS)	Revised	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element applies to all respondents subject to subpart N and will affect ~101 reporters annually.
P - Hydrogen Production	98.166(b)	If the CEMS measures emissions from either a common stack for multiple hydrogen production units or a common stack for hydrogen production unit(s) and other source(s), you must also report the estimated decimal fraction of the total annual CO <sub>2</sub> emissions	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element applies to respondents subject to subpart P that use CEMS and will affect ~3 reporters annually.

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		attributable to this hydrogen production process unit		
	98.166(c)	If a material balance is used to calculate emissions using Equations P-1 through P-3, as applicable, report the total annual CO <sub>2</sub> emissions (metric tons) and the name and annual quantity (metric tons) of each carbon-containing fuel and feedstock.	New	Increase – requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element applies to respondents subject to subpart P that use CEMs and will affect ~3 reporters annually.
P – Hydrogen Production	98.166(d)(1)	For each hydrogen production process unit, report the process type for each hydrogen production unit (i.e., SMR, SMR-WGS, POX, POX-WGS, Water Electrolysis, Brine Electrolysis, or Other (specify)).	New	Increase – requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This change will affect ~113 existing reporters + 2 new reporters annually.
	98.166(d)(2)	For each hydrogen production process unit, the type of hydrogen purification method (pressure swing adsorption, amine adsorption, membrane separation, other (specify), none).	New	Increase – requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This change will affect ~ 113 existing reporters + 2 new reporters annually.
P – Hydrogen Production	98.166(d)(4)	For each hydrogen production process unit, annual quantity of hydrogen that is purified only (metric tons). This quantity may be assumed to be equal to the annual quantity of hydrogen in the feedstocks to the	New	Increase – requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This change will affect ~113 existing reporters + 2 new reporters annually.

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		hydrogen production unit.		
	98.166(d)(6)	For each hydrogen production process unit, quantity of CO <sub>2</sub> collected and transferred off site in either gas, liquid, or solid forms, following the requirements of subpart PP of this part.	Revised	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This change will affect ~113 existing reporters + 2 new reporters annually.
	98.166(d)(7)	For each hydrogen production process unit, annual quantity of carbon other than CO <sub>2</sub> or methanol collected and transferred off site, or transferred to a separate process unit within the facility for which GHG emissions associated with this carbon is being reported under other provisions of part 98, in either gas, liquid, or solid forms (metric tons carbon).	Revised	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This change will affect ~113 existing reporters + 2 new reporters annually.
	98.166(b)(9)	For each hydrogen production process unit, annual net quantity of steam consumed by the unit(metric tons).	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This change will affect ~113 existing reporters + 2 new reporters annually.
	98.166(d)(10)	An indication (yes or no) if BAMM was used, in accordance with §98.164(c), to determine fuel flow for each stationary combustion unit directly	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This

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		associated with hydrogen production (e.g., reforming furnace and hydrogen production process unit heater)		change applies to reporters who report to subparts P and C and will affect ~68 existing reporters.
	98.166(d)(10)(i)	The beginning date of using BMM, in accordance with §98.164(c), to determine fuel flow for each stationary combustion unit directly associated with hydrogen production (e.g., reforming furnace and hydrogen production process unit heater).	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This change applies to reporters who report to subparts P and C and will affect ~68 existing reporters.
	98.166(d)(10)(ii)	The anticipated or actual end date of using BMM, as applicable, in accordance with §98.164(c), to determine fuel flow for each stationary combustion unit directly associated with hydrogen production (e.g., reforming furnace and hydrogen production process unit heater).	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This change applies to reporters who report to subparts P and C and will affect ~68 existing reporters.
Q - Iron and Steel Production	98.176(g)	Each unit type for each process unit.	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This change will affect ~121 reporters annually.
	98.176(g)	Annual production capacity for each process unit.	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This change will affect ~121 reporters

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				annually.
	98.176(g)	Annual operating hours for each process unit.	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This change will affect ~121 reporters annually.
S - Lime Manufacturing	98.196(a)(9)	Annual arithmetic average of calcium oxide content for each type of lime product produced (metric tons CaO/metric ton lime) (CEMS)	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element applies to all respondents subject to subpart S that do use a CEMS and will affect ~ 3 reporters annually.
	98.196(a)(10)	Annual arithmetic average of magnesium oxide content for each type of lime product produced (metric tons MgO/metric ton lime) (CEMS)	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element applies to all respondents subject to subpart S that do use a CEMS and will affect ~ 3 reporters annually.
	98.196(a)(11)	Annual arithmetic average of calcium oxide content for each type of calcined lime byproduct/waste sold (metric tons CaO/metric ton lime) (CEMS)	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element applies to all respondents subject to subpart S that do use a CEMS and will affect ~ 3 reporters annually.
	98.196(a)(12)	Annual arithmetic average of	New	Increase - requires respondents to

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		magnesium oxide content for each type of calcined lime byproduct/waste sold (metric tons MgO/metric ton lime) (CEMS)		ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element applies to all respondents subject to subpart S that do use a CEMS and will affect ~ 3 reporters annually.
S - Lime Manufacturing	98.196(a)(13)	Annual arithmetic average of calcium oxide content for each type of calcined lime byproduct/waste not sold (metric tons CaO/metric ton lime) (CEMS)	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element applies to all respondents subject to subpart S that do use a CEMS and will affect ~ 3 reporters annually.
	98.196(a)(14)	Annual arithmetic average of magnesium oxide content for each type of calcined lime byproduct/waste not sold (metric tons MgO/metric ton lime) (CEMS)	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element applies to all respondents subject to subpart S that do use a CEMS and will affect ~ 3 reporters annually.
	98.196(b)(17)(i)	The annual amount of CO <sub>2</sub> captured for use in all on-site processes (No CEMS)	Revised	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element applies to all respondents subject to subpart S that do not use a CEMS and will affect ~ 68 reporters annually.

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	98.196(b)(17)	Indicate whether CO <sub>2</sub> was captured (No CEMS)	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element applies to all respondents subject to subpart S that do not use a CEMS and will affect ~ 68 reporters annually.
S - Lime Manufacturing	98.196(b)(22)	Annual average results of chemical composition analysis of all lime byproducts or wastes not sold (No CEMS)	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element applies to all respondents subject to subpart S that do not use a CEMS and will affect ~ 68 reporters annually.
	98.196(b)(23)	Annual quantity (tons) of all lime byproducts or wastes not sold (No CEMS)	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element applies to all respondents subject to subpart S that do not use a CEMS and will affect ~ 68 reporters annually.
X - Petrochemical Production	98.246(b)(7)	If you measure emissions in accordance with § 98.243(b), provide estimates based on engineering judgment of the fractions of the total	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This

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		CO2 emissions that are attributable to combustion of off-gas from the petrochemical process unit(s) served by the flare		data element applies to respondents that measure emissions in accordance with § 98.243(b) and would be required to newly report data elements related to emissions from combustion of off-gas for units served by a flare, and will affect ~2 reporter annually.
	98.246(b)(7)	If you measure emissions in accordance with § 98.243(b), provide estimates based on engineering judgment of the fractions of the total CH4 emissions that are attributable to combustion of off-gas from the petrochemical process unit(s) served by the flare	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element applies to respondents that measure emissions in accordance with § 98.243(b) and would be required to newly report data elements related to emissions from combustion of off-gas for units served by a flare, and will affect ~ 2 reporter annually.
	98.246(b)(7)	If you measure emissions in accordance with § 98.243(b), provide estimates based on engineering judgment of the fractions of the total N2O emissions that are attributable to combustion of off-gas from the petrochemical process unit(s) served by the flare	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element applies to respondents that measure emissions in accordance with § 98.243(b) and would be required to newly report data elements related to emissions from combustion of off-gas for units served by a flare, and will affect ~ 2

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				reporter annually.
	98.246(c)(3)	If you comply with the combustion methodology specified in § 98.243(d), provide estimates based on engineering judgment of the fractions of the total CO <sub>2</sub> emissions that are attributable to combustion of off-gas from the ethylene process unit(s) served by the flare.	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element applies to respondents that measure emissions in accordance with § 98.243(d) and would be required to newly report data elements related to emissions from combustion of off-gas for units served by a flare, and will affect ~ 29 reporters annually.
	98.246(c)(3)	If you comply with the combustion methodology specified in § 98.243(d), provide estimates based on engineering judgment of the fractions of the total CH <sub>4</sub> emissions that are attributable to combustion of off-gas from the ethylene process unit(s) served by the flare.	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element applies to respondents that measure emissions in accordance with § 98.243(d) and would be required to newly report data elements related to emissions from combustion of off-gas for units served by a flare, and will affect ~ 29 reporters annually.
	98.246(c)(3)	If you comply with the combustion methodology specified in § 98.243(d), provide estimates based on engineering judgment of the fractions of the total N <sub>2</sub> O emissions that are	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element applies to respondents that

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		attributable to combustion of off-gas from the ethylene process unit(s) served by the flare.		measure emissions in accordance with § 98.243(d) and would be required to newly report data elements related to emissions from combustion of off-gas for units served by a flare, and will affect ~ 29 reporters annually.
	98.246(c)(6)	If you comply with the combustion methodology specified in § 98.243(d), name of each product produced in each process unit.	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element applies to respondents that measure emissions in accordance with § 98.243(d) and will affect ~ 29 reporters annually.
	98.246(c)(6)	If you comply with the combustion methodology specified in § 98.243(d), quantity of each product produced in each process unit.	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element applies to respondents that measure emissions in accordance with § 98.243(d) and will affect ~ 29 reporters annually.
Y - Petroleum Refineries	98.256(k)(6)(i)	If you use mass measurements from company records to determine the typical dry mass of coke in the delayed coking unit vessel at the end of the coking cycle, internal height of delayed coking unit vessel (feet) for	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element will affect ~ 10 reporters annually.

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		each delayed coking unit.		
	98.256(k)(6)(ii)	If you use mass measurements from company records to determine the typical dry mass of coke in the delayed coking unit vessel at the end of the coking cycle, typical distance from the top of the delayed coking unit vessel to the top of the coke bed (i.e., coke drum outage) at the end of the coking cycle (feet) from company records or engineering estimates for each delayed coking unit.	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element will affect ~ 10 reporters annually.
	98.256(j)(2)	For asphalt blowing operations, maximum rated throughput of the unit, in metric tons asphalt/stream day.	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element will affect ~ 6 reporters under subpart Y with asphalt blowing units annually.
	98.256(h)(7)(i)	For coke calcining units, the owner and operator shall report:  (1) The unit ID number (if applicable).  (2) Maximum rated throughput of the unit, in metric tons coke calcined/stream day.  (3) The calculated CO <sub>2</sub> , CH <sub>4</sub> , and N <sub>2</sub> O annual emissions for each unit,	Removed	Decrease - removes reporting of data elements associated with coke calciners, the reporting for coke calciners is now accounted for under subpart WW. Affects ~3 petroleum refineries with coke calcining units.

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		<p>expressed in metric tons of each pollutant emitted.</p> <p>(4) A description of the method used to calculate the CO2 emissions for each unit (e.g., reference section and equation number).</p> <p>(5) If you use Equation Y-13 of § 98.253, an indication of whether coke dust is recycled to the unit (e.g., all dust is recycled, a portion of the dust is recycled, or none of the dust is recycled).</p> <p>(6) If you use a CEMS, the relevant information required under § 98.36 for the Tier 4 Calculation Methodology, the CO2 annual emissions as measured by the CEMS and the annual process CO2 emissions calculated according to § 98.253(g) (1).</p> <p>(7) Indicate whether you use a measured value, a unit-specific emission factor or a default emission factor for CH4 emissions. If you use a unit-specific emission factor for CH4, report the basis for the factor.</p>		

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		(8) Indicate whether you use a measured value, a unit-specific emission factor, or a default emission factor for N2O emissions. If you use a unit-specific emission factor for N2O, report the basis for the factor.		
Subpart AA - Pulp and Paper	98.36(b)(8)	Annual CO2 mass emissions (including biogenic CO2), and the annual CH4, and N2O mass emissions for each type of fuel combusted during the reporting year, expressed in metric tons of each gas and in metric tons of CO2e,	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This change will affect ~1 existing reporter annually.
	98.36(b)(9)	Metric tons of biogenic CO2 emissions	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This change will affect ~1 existing reporter annually.
BB - Silicon Carbide Production	98.286(c)(1)	Type of methane abatement technology used on each silicon carbide process unit or production furnace	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element will affect 1 reporter annually.
	98.286(c)(1)	Date of installation for each methane abatement technology used on each silicon carbide process unit or	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-

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		production furnace.		GGRT as part of the annual report. This data element will affect 1 reporter annually.
BB - Silicon Carbide Production	98.286(c)(2)	Methane destruction efficiency for each methane abatement technology (percent destruction).	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element will affect 1 reporter annually.
	98.286(c)(2)	If you report the methane destruction efficiency determined via a performance test, you must also report the test method that was used during the performance test.	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element will affect 1 reporter annually.
	98.286(c)(3)	Percentage of annual operating hours that methane abatement technology was in use for all silicon carbide process units or production furnaces combined.	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element will affect 1 reporter annually.
DD - Electrical Transmission and Distribution Equipment Use	98.306(a)(1)	Nameplate capacity of equipment (pounds) containing each reportable gas: Existing at the beginning of the year (excluding hermetically sealed-pressure switchgear)	Revised	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element will affect ~93 reporters annually.
	98.306(a)(2)	Nameplate capacity of equipment	Revised	Increase - requires respondents to

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		(pounds) containing each reportable gas: New hermetically sealed-pressure switchgear during the year		ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element will affect ~93 reporters annually.
	98.306(a)(3)	Nameplate capacity of equipment (pounds) containing each reportable gas: New equipment other than hermetically sealed-pressure switchgear during the year	Revised	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element will affect ~93 reporters annually.
	98.306(a)(4)	Nameplate capacity of equipment (pounds) containing each reportable gas: Retired hermetically sealed-pressure switchgear during the year	Revised	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element will affect ~93 reporters annually.
DD - Electrical Transmission and Distribution Equipment Use	98.306(a)(5)	Nameplate capacity of equipment (pounds) containing each reportable gas: Retired equipment other than hermetically sealed-pressure switchgear during the year	Revised	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element will affect ~93 reporters annually.
	98.306(d)	Pounds of each reportable insulating gas stored in containers, but not in energized equipment, at the beginning of the year.	Revised	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element will affect ~93 reporters

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				annually.
	98.306(e)	Pounds of each reportable insulating gas stored in containers, but not in energized equipment, at the end of the year.	Revised	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element will affect ~93 reporters annually.
	98.306(f)	Pounds of each reportable insulating gas purchased in bulk from chemical producers or distributors.	Revised	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element will affect ~93 reporters annually.
	98.306(g)	Pounds of each reportable insulating gas purchased from equipment manufacturers or distributors with or inside equipment, including hermetically sealed-pressure switchgear.	Revised	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element will affect ~93 reporters annually.
	98.306(h)	Pounds of each reportable insulating gas returned to facility after off-site recycling.	Revised	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element will affect ~93 reporters annually.
DD - Electrical Transmission and	98.306(i)	Pounds of each reportable insulating gas acquired inside equipment, except hermetically sealed-pressure	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-

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Distribution Equipment Use		switchgear, that was transferred while the equipment was in use, e.g., through acquisition of all or part of another electric power system.		GGRT as part of the annual report. This data element will affect ~93 reporters annually.
	98.306(j)	Pounds of each reportable insulating gas returned to suppliers.	Revised	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element will affect ~93 reporters annually.
	98.306(k)	Pounds of each reportable insulating gas that was sold or transferred to other entities in bulk.	Revised	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element will affect ~93 reporters annually.
	98.306(l)	Pounds of each reportable insulating gas sent off-site for recycling.	Revised	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element will affect ~93 reporters annually.
	98.306(m)	Pounds of each reportable insulating gas sent off-site for destruction.	Revised	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element will affect ~93 reporters annually.

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	98.306(n)	Pounds of each reportable insulating gas contained in equipment, including hermetically sealed-pressure switchgear, that was sold or transferred to other entities while the equipment was not in use.	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element will affect ~93 reporters annually.
DD - Electrical Transmission and Distribution Equipment Use	98.306(o)	Pounds of each reportable insulating gas disbursed inside equipment, except hermetically sealed-pressure switchgear, that was transferred while the equipment was in use, e.g., through sale of all or part of the electric power system to another electric power system.	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element will affect ~93 reporters annually.
	98.306(q)(1)	The number of reportable insulating gas containing pieces of equipment in each of the following equipment category: New hermetically sealed-pressure switchgear during the year.	Revised	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element will affect ~93 reporters annually.
	98.306(q)(2)	The number of reportable insulating gas containing pieces of equipment in each of the following equipment category: New equipment other than hermetically sealed-pressure switchgear during the year.	Revised	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element will affect ~93 reporters annually.
	98.306(q)(3)	The number of reportable insulating gas containing pieces of equipment in	Revised	Increase - requires respondents to ascertain the data element using readily

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		each of the following equipment category: Retired hermetically sealed-pressure switchgear during the year.		available data and submit the value via e-GGRT as part of the annual report. This data element will affect ~93 reporters annually.
	98.306(q)(4)	The number of reportable insulating gas containing pieces of equipment in each of the following equipment category: Retired equipment other than hermetically sealed-pressure switchgear during the year.	Revised	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element will affect ~93 reporters annually.
DD - Electrical Transmission and Distribution Equipment Use	98.306(r)(1)	The total nameplate capacity values, summed across each group, most recently assigned by the electrical equipment manufacturer(s) to all new equipment whose nameplate capacity values were measured by the user under this subpart and for which the user adopted the user-measured nameplate capacity value during the year.	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element applies to reporters who opt to measure the nameplate capacity of equipment. For the purposes of estimating burden, EPA has assumed this will affect 20% or ~19 reporters annually.
	98.306(r)(2)	The total nameplate capacity values, summed across each group, most recently assigned by the electrical equipment manufacturer(s) to all retiring equipment whose nameplate capacity values were measured by the user under this subpart and for which the user adopted the user-measured	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element applies to reporters who opt to measure the nameplate capacity of equipment. For the purposes of estimating burden, EPA has assumed this

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		nameplate capacity value during the year.		will affect 20% or ~19 reporters annually.
	98.306(s)(1)	The total nameplate capacity values, summed across each group, measured by the electrical equipment user for all new equipment whose nameplate capacity values were measured by the user under this subpart and for which the user adopted the user-measured nameplate capacity value during the year.	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element applies to reporters who opt to measure the nameplate capacity of equipment. For the purposes of estimating burden, EPA has assumed this will affect 20% or ~19 reporters annually.
	98.306(s)(2)	The total nameplate capacity values, summed across each group, measured by the electrical equipment user for all retiring equipment whose nameplate capacity values were measured by the user under this subpart and for which the user adopted the user-measured nameplate capacity value during the year.	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element applies to reporters who opt to measure the nameplate capacity of equipment. For the purposes of estimating burden, EPA has assumed this will affect 20% or ~19 reporters annually.
DD - Electrical Transmission and Distribution Equipment Use	98.306(t)	For each unique insulating gas reported in paragraphs (a), (d) through (l), and (n) of this section, an ID number or other appropriate descriptor.	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element will affect ~93 reporters annually.

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	98.306(u)	For each ID number or descriptor reported in paragraph (q), the name <u>(as required in § 98.3(c)(4)(iii)(G)(1))</u> and weight percent of each fluorinated gas in the insulating gas.	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element will affect ~93 reporters annually.
Subpart GG - Zinc Production	98.336(a)(6)	If a CEMS is used, report the total amount of electric arc furnace dust annually consumed by all Waelz kilns at the facility (tons).	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. There are no reporters using the CEMS methodology under subpart GG, therefore this data element will affect 0 reporters annually.
	98.336(b)(6)	If a CEMS is not used, report the total amount of electric arc furnace dust annually consumed by all Waelz kilns at the facility (tons).	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element applies to reporters using the non-CEMS methodology and will affect ~5 reporters annually.
Subpart HH - MSW Landfills	98.346(h)	An indication of the applicability of 40 CFR part 60 or part 62 requirements to the landfill, 40 CFR part 60, subpart WWW, 40 CFR part 60, subpart XXX, approved state plan implementing 40 CFR part 60, subparts Cc or Cf, federal plan as implemented at 40 CFR part	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element affects all landfills or ~1,123 reporters annually.

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		62, subparts GGG or OOO, not subject to 40 CFR part 60 or part 62 municipal solid waste landfill rules).		
	98.346(h)	If the landfill is subject to a 40 CFR part 60 or part 62 municipal solid waste landfill rule, an indication of whether the landfill gas collection system is required under 40 CFR 60 or part 62.	New	Increase – requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element affects facilities reporting to subpart HH who also meet the design criteria for landfills subject to 40 CFR part 60 landfill NSPS, EG, or FP rule and will affect ~1,123 reporters annually.
	98.346(j)(5)	For landfills with gas collection systems, the number of gas collection systems at the landfill facility.	New	Increase – requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element affects reporters with gas collection systems and will affect ~840 existing reporters + 6 new reporters annually.
	98.346(j)(6)(i)	For landfills with gas collection systems, for each gas collection system at the facility, a unique name or ID number for the gas collection system.	New	Increase – requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element affects reporters with gas collection systems and will affect ~840 existing reporters + 6 new reporters annually.

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Subpart HH - MSW Landfills	98.346(j)(6)(iii)	For landfills with gas collection systems, for each gas collection system at the facility, the annual hours the gas collection system was operating normally.	Revised	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element affects reporters with gas collection systems and will affect ~840 existing reporters + 6 new reporters annually.
	98.346(j)(6)(iv)	For landfills with gas collection systems, for each gas collection system at the facility, the number of measurement locations associated with the gas collection system.	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element affects reporters with gas collection systems and will affect ~840 existing reporters + 6 new reporters annually.
	98.346(j)(6)(v)(A)	For each measurement location associated with the gas collection system, a unique name or ID number for the measurement location.	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element affects reporters with gas collection systems and will affect ~840 existing reporters + 6 new reporters annually.
	98.346(j)(6)(v)(C)	For each gas collection system at a landfill facility, for each measurement location associated with the gas collection system, an indication of	Revised	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This

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		whether destruction occurs at the landfill facility, off-site, or both.		data element affects reporters with gas collection systems and will affect ~840 existing reporters + 6 new reporters annually.
	98.346(j)(6)(v)(D)(1)	If destruction occurs at the landfill facility for the measurement location (in full or in part), for each destruction device, a unique name or ID number for the destruction device.	New	Increase – requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element affects reporters with gas collection systems with destruction devices and will affect ~824 existing reporters annually.
	98.346(j)(6)(v)(D)(2)	If destruction occurs at the landfill facility for the measurement location (in full or in part), for each destruction device, the type of destruction device (flare, a landfill gas to energy project (i.e., engine or turbine), off-site, or other (specify))	New	Increase – requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element affects reporters with gas collection systems with destruction devices and will affect ~824 existing reporters annually.
Subpart HH - MSW Landfills	98.346(j)(6)(v)(D)(4)	If destruction occurs at the landfill facility for the measurement location (in full or in part), for each destruction device, the total annual hours where active gas flow was sent to the destruction device.	New	Increase – requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element affects reporters with gas collection systems with destruction devices and will affect ~824 existing reporters annually.

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	98.346(j)(6)(v)(D)(5)	If destruction occurs at the landfill facility for the measurement location (in full or in part), for each destruction device, the annual operating hours where active gas flow was sent to the destruction device and the destruction device was operating at its intended temperature or other parameter indicative of effective operation.	Revised	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element affects reporters with gas collection systems with destruction devices and will affect ~824 existing reporters annually.
	98.346(j)(6)(v)(D)(6)	If destruction occurs at the landfill facility for the measurement location (in full or in part), for each destruction device, the estimated fraction of the recovered CH <sub>4</sub> reported for the measurement location directed to the destruction device based on best available data or engineering judgement (decimal, must total to 1 for each measurement location).	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element affects reporters with gas collection systems with destruction devices and will affect ~824 existing reporters annually.
Subpart OO - Suppliers of Industrial Greenhouse Gases	98.416(c)(7)	Customs entry number	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element will affect bulk importers or ~76 reporters annually.
	98.416(k)	For nitrous oxide, saturated perfluorocarbons, and sulfur	New	Increase - requires respondents to ascertain the data element using readily

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		hexafluoride, and fluorinated heat transfer fluids as defined at §98.6, report the end use(s) for which each GHG or fluorinated HTF is transferred.		available data and submit the value via e-GGRT as part of the annual report. This data element will affect suppliers or ~120 reporters annually.
	98.416(k)	For nitrous oxide, saturated perfluorocarbons, and sulfur hexafluoride, and fluorinated heat transfer fluids as defined at §98.6, report the aggregated annual quantity of that GHG or fluorinated HTF in metric tons that is transferred to that end use application, if known.	New	Increase – requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element will affect suppliers or ~120 reporters annually.
Subpart PP - Suppliers of Carbon Dioxide	98.426(h)(1)	If you capture a CO <sub>2</sub> stream from a facility that is subject this part and transfer CO <sub>2</sub> to any facilities that are subject to subpart RR or subpart VV of this part, the facility identification number associated with the annual GHG report for the facility that is the source of the captured CO <sub>2</sub> stream.	Revised	Increase – requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element will affect subpart PP reporters that would be required to report CO <sub>2</sub> transferred to facilities reporting under subparts RR (~ 7 facilities) or VV (~2 facilities) annually.
	98.426(h)(2)	If you capture a CO <sub>2</sub> stream from a facility that is subject this part and transfer CO <sub>2</sub> to any facilities that are subject to subpart RR or subpart VV of this part, each facility identification number associated with the annual GHG reports for each subpart RR and	Revised	Increase – requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element will affect subpart PP reporters that would be required to report CO <sub>2</sub> transferred to facilities reporting

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		subpart VV facility to which CO <sub>2</sub> is transferred		under subparts RR (~ 7 facilities) or VV (~2 facilities) annually.
	98.426(h)(3)	If you capture a CO <sub>2</sub> stream from a facility that is subject this part and transfer CO <sub>2</sub> to any facilities that are subject to subpart RR or subpart VV of this part, the annual quantity of CO <sub>2</sub> in metric tons that is transferred to each subpart RR and subpart VV facility	Revised	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element will affect subpart PP reporters that would be required to report CO <sub>2</sub> transferred to facilities reporting under subparts RR (~ 7 facilities) or VV (~2 facilities) annually.
	98.426(i)(1)	If you capture a CO <sub>2</sub> stream at a facility with a DAC process unit and electricity (excluding combined heat and power (CHP)) is provided using a dedicated meter for the DAC process unit: Annual quantity of electricity (generated on-site or off-site) consumed for the DAC process unit, in megawatt hours (MWh).	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element applies to facilities that capture a CO <sub>2</sub> stream in a direct air capture (DAC) unit. For the purposes of estimating burden, EPA has assumed this will affect 10% of reporters or ~13 reporters annually.
Subpart PP - Suppliers of Carbon Dioxide	98.426(i)(1)(i)(A)	If you capture a CO <sub>2</sub> stream at a facility with a DAC process unit and electricity (excluding CHP) is provided using a dedicated meter for the DAC process unit: If electricity is sourced from a grid connection, the state where the facility with the DAC	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element applies to facilities that capture a CO <sub>2</sub> stream in a direct air capture (DAC) unit. For the purposes of

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		process unit is located.		estimating burden, EPA has assumed this will affect 10% of reporters or ~13 reporters annually.
	98.426(i)(1)(i)(B)	If you capture a CO <sub>2</sub> stream at a facility with a DAC process unit and electricity (excluding CHP) is provided using a dedicated meter for the DAC process unit: If electricity is sourced from a grid connection, the county where the facility with the DAC process unit is located.	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element applies to facilities that capture a CO <sub>2</sub> stream in a direct air capture (DAC) unit. For the purposes of estimating burden, EPA has assumed this will affect 10% of reporters or ~13 reporters annually.
	98.426(i)(1)(i)(C)	If you capture a CO <sub>2</sub> stream at a facility with a DAC process unit and electricity (excluding CHP) is provided using a dedicated meter for the DAC process unit: If electricity is sourced from a grid connection, the name of the electric utility company that supplied the electricity as shown on the last monthly bill issued by utility company during the reporting period.	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element applies to facilities that capture a CO <sub>2</sub> stream in a direct air capture (DAC) unit. For the purposes of estimating burden, EPA has assumed this will affect 10% of reporters or ~13 reporters annually.
	98.426(i)(1)(i)(D)	If you capture a CO <sub>2</sub> stream at a facility with a DAC process unit and electricity (excluding CHP) is provided using a dedicated meter for the DAC process unit: If electricity is sourced	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element applies to facilities that

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		from a grid connection, the name of the electric utility company that delivered the electricity.		capture a CO <sub>2</sub> stream in a direct air capture (DAC) unit. For the purposes of estimating burden, EPA has assumed this will affect 10% of reporters or ~13 reporters annually.
Subpart PP - Suppliers of Carbon Dioxide	98.426(i)(1)(i)(E)	If you capture a CO <sub>2</sub> stream at a facility with a DAC process unit and electricity (excluding CHP) is provided using a dedicated meter for the DAC process unit: If electricity is sourced from a grid connection, the annual quantity of electricity consumed for the DAC process unit, in MWh, calculated as the sum of the total energy usage values specified in all billing statements received during the reporting year.	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element applies to facilities that capture a CO <sub>2</sub> stream in a direct air capture (DAC) unit. For the purposes of estimating burden, EPA has assumed this will affect 10% of reporters or ~13 reporters annually.
	98.426(i)(1)(ii)	If you capture a CO <sub>2</sub> stream at a facility with a DAC process unit and electricity (excluding CHP) is provided using a dedicated meter for the DAC process unit: If electricity is sourced from on-site or through a contractual mechanism for dedicated off-site generation, if known, indicate each applicable energy source (natural gas, oil, coal, nuclear, and other) and the annual electricity consumed for the	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element applies to facilities that capture a CO <sub>2</sub> stream in a direct air capture (DAC) unit. For the purposes of estimating burden, EPA has assumed this will affect 10% of reporters or ~13 reporters annually.

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		DAC process unit per applicable source, in MWh.		
	98.426(i)(1)(ii)	If you capture a CO <sub>2</sub> stream at a facility with a DAC process unit and electricity (excluding CHP) is provided using a dedicated meter for the DAC process unit: If electricity is sourced from on-site or through a contractual mechanism for dedicated off-site generation, and if the on-site energy source is natural gas, oil, or coal, indicate whether flue gas is also captured by the DAC process unit.	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element applies to facilities that capture a CO <sub>2</sub> stream in a direct air capture (DAC) unit. For the purposes of estimating burden, EPA has assumed this will affect 10% of reporters or ~13 reporters annually.
Subpart PP - Suppliers of Carbon Dioxide	98.426(i)(2)	If you capture a CO <sub>2</sub> stream at a facility with a DAC process unit and you use heat, steam, or other forms of thermal energy (excluding CHP) for the DAC process unit: If known, indicate each applicable energy source (solar, geothermal, natural gas, oil, coal, nuclear, other) and the annual quantity of heat, steam, or other forms of thermal energy used for the DAC process unit per applicable energy source, in megajoules (MJ).	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element applies to facilities that capture a CO <sub>2</sub> stream in a direct air capture (DAC) unit. For the purposes of estimating burden, EPA has assumed this will affect 10% of reporters or ~13 reporters annually.
	98.426(i)(2)	If you capture a CO <sub>2</sub> stream at a facility with a DAC process unit and	New	Increase - requires respondents to ascertain the data element using readily

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		you use heat, steam, or other forms of thermal energy (excluding CHP) for the DAC process unit: If the on-site heat source is natural gas, oil, or coal, also indicate whether flue gas is also captured by the DAC process unit.		available data and submit the value via e-GGRT as part of the annual report. This data element applies to facilities that capture a CO <sub>2</sub> stream in a direct air capture (DAC) unit. For the purposes of estimating burden, EPA has assumed this will affect 10% of reporters or ~13 reporters annually.
	98.426(i)(3)(i)	If you capture a CO <sub>2</sub> stream at a facility with a DAC process unit and electricity from CHP is sourced from on-site or through a contractual mechanism for dedicated off-site generation: If known, indicate each applicable energy source (non-hydropower renewable sources including solar, wind, geothermal and tidal; hydropower; natural gas; oil; coal; nuclear; and other) and the annual quantity of electricity consumed for the DAC process unit per applicable energy source, in MWh.	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element applies to facilities that capture a CO <sub>2</sub> stream in a direct air capture (DAC) unit. For the purposes of estimating burden, EPA has assumed this will affect 10% of reporters or ~13 reporters annually.
	98.426(i)(3)(i)	If you capture a CO <sub>2</sub> stream at a facility with a DAC process unit and electricity from CHP is sourced from on-site or through a contractual mechanism for dedicated off-site	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element applies to facilities that

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		generation: If the on-site energy source for CHP is natural gas, oil, or coal, indicate whether flue gas is also captured by the DAC process unit.		capture a CO <sub>2</sub> stream in a direct air capture (DAC) unit. For the purposes of estimating burden, EPA has assumed this will affect 10% of reporters or ~13 reporters annually.
	98.426(i)(3)(ii)	If you capture a CO <sub>2</sub> stream at a facility with a DAC process unit and you used heat from CHP for the DAC process unit: If known, indicate each applicable energy source (solar, geothermal, natural gas, oil, coal, nuclear, other) and the annual quantity of heat, steam or other forms of thermal energy used for the DAC process unit per applicable energy source, in MJ.	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element applies to facilities that capture a CO <sub>2</sub> stream in a direct air capture (DAC) unit. For the purposes of estimating burden, EPA has assumed this will affect 10% of reporters or ~13 reporters annually.
	98.426(i)(3)(ii)	If you capture a CO <sub>2</sub> stream at a facility with a DAC process unit and you used heat from CHP for the DAC process unit: If the on-site heat source is natural gas, oil, or coal, also indicate whether flue gas is also captured by the DAC process unit.	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element applies to facilities that capture a CO <sub>2</sub> stream in a direct air capture (DAC) unit. For the purposes of estimating burden, EPA has assumed this will affect 10% of reporters or ~13 reporters annually.
Subpart QQ - Importers and	98.436(a)(7)	For each importer of fluorinated GHGs contained in pre-charged	New	Increase - requires respondents to ascertain the data element using readily

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Exporters of Fluorinated Greenhouse Gases Contained in Pre-Charged Equipment or Closed-Cell Foams		equipment or closed-cell foams, the harmonized tariff system (HTS) code for each type of pre-charged equipment or closed-cell foam imported.		available data and submit the value via e-GGRT as part of the annual report. This data element applies to bulk importers and will affect ~33 reporters annually.
	98.436(b)(7)	For each exporter of fluorinated GHGs contained in pre-charged equipment or closed-cell foams, the schedule B code for each type of pre-charged equipment or closed-cell foam imported.	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element applies to bulk exporters and will affect ~28 reporters annually.
Subpart SS - Electrical Equipment Manufacture and Refurbishment	98.456(k)	The nameplate capacity of the equipment, in pounds, delivered to customers with insulating gas inside, if different from §98.456(f).	Revised	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element will affect ~5 reporters annually.
	98.456(p)	Number of samples for each make, model, and group of conditions if the mass of each insulating gas disbursed to customers in new equipment over the period p is determined by assuming that it is equal to the equipment's nameplate capacity or, in cases where equipment is shipped with a partial charge, equal to its partial shipping charge.	Revised	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element will affect ~5 reporters annually.
	98.456(p)	Upper and lower bounds on the 95	Revised	Increase - requires respondents to

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		percent confidence interval for each make, model, and group of conditions if the mass of each insulating gas disbursed to customers in new equipment over the period p is determined by assuming that it is equal to the equipment's nameplate capacity or, in cases where equipment is shipped with a partial charge, equal to its partial shipping charge.		ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element will affect ~5 reporters annually.
Subpart SS - Electrical Equipment Manufacture and Refurbishment	98.456(a)	Pounds of each reportable insulating gas stored in containers at the beginning of the year.	Revised	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element will affect ~5 reporters annually.
	98.456(b)	Pounds of each reportable insulating gas stored in containers at the end of the year.	Revised	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element will affect ~5 reporters annually.
	98.456(c)	Pounds of each reportable insulating gas purchased in bulk.	Revised	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element will affect ~5 reporters

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				annually.
	98.456(d)	Pounds of each reportable insulating gas returned by equipment users with or inside equipment.	Revised	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element will affect ~5 reporters annually.
	98.456(e)	Pounds of each reportable insulating gas returned to site from off site after recycling.	Revised	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element will affect ~5 reporters annually.
	98.456(f)	Pounds of each reportable insulating gas inside new equipment delivered to customers.	Revised	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element will affect ~5 reporters annually.
	98.456(g)	Pounds of each reportable insulating gas delivered to equipment users in containers.	Revised	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element will affect ~5 reporters annually.
Subpart SS - Electrical Equipment	98.456(h)	Pounds of each reportable insulating gas returned to suppliers.	Revised	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-

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Manufacture and Refurbishment				GGRT as part of the annual report. This data element will affect ~5 reporters annually.
	98.456(i)	Pounds of each reportable insulating gas sent off site for destruction.	Revised	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element will affect ~5 reporters annually.
	98.456(j)	Pounds of each reportable insulating gas sent off site to be recycled.	Revised	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element will affect ~5 reporters annually.
	98.456(o)	If the mass of each reportable insulating gas disbursed to customers in new equipment over the period p that is determined according to the methods required in §98.453(h), report the mean value of nameplate capacity in pounds for each make, model, and group of conditions.	Revised	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element will affect ~5 reporters annually.
	98.456(q)	Pounds of each insulating gas used to fill equipment at off-site electric power transmission or distribution locations, or $M_f$ , of Equation SS-7 of this subpart.	Revised	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element will affect ~5 reporters

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				annually.
	98.456(r)	Pounds of each insulating gas used to charge the equipment prior to leaving the electrical equipment manufacturer or refurbishment facility, or $M_c$ , of Equation SS-7 of this subpart.	Revised	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element will affect ~5 reporters annually.
Subpart SS - Electrical Equipment Manufacture and Refurbishment	98.456(u)	For each ID number of descriptor for each unique insulating gas reported in paragraphs (a) through (j) and (o) through (r), an ID number or other appropriate descriptor.	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element will affect ~5 reporters annually.
	98.456(v)	For each unique insulating gas, name <u>(as required in § 98.3(c)(4)(iii)(G)(1))</u> and weight percent of each fluorinated gas in the insulating gas reported in paragraphs (a)- through (j) and (o)- through (r) of this section.	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element will affect ~5 reporters annually.
Subpart VV - Geologic Sequestration of Carbon Dioxide with Enhanced Oil Recovery Using ISO 27916	98.481(b)(3)	Notification of intent to cease reporting.	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element will affect ~4 reporters annually.
	98.481(b)(3)	Copy of CO2-EOR project termination documentation.	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-

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				GGRT as part of the annual report. This data element will affect ~4 reporters annually.
	98.486(a)	The annual quantity of associated storage in metric tons of CO <sub>2</sub> .	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element will affect ~4 reporters annually.
	98.486(b)	The density of CO <sub>2</sub> if volumetric units are converted to mass in order to be reported for annual quantity of CO <sub>2</sub> stored.	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element will affect ~4 reporters annually.
Subpart VV - Geologic Sequestration of Carbon Dioxide with Enhanced Oil Recovery Using ISO 27916	98.486(c)	The annual quantity of CO <sub>2</sub> input ( <i>minput</i> ).	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element will affect ~4 reporters annually.
	98.486(c)(1)	The annual total mass of CO <sub>2</sub> received at the custody transfer meter by the CO <sub>2</sub> -EOR project, including CO <sub>2</sub> transferred from another CO <sub>2</sub> -EOR project ( <i>mreceived</i> ).	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element will affect ~4 reporters annually.
	98.486(c)(2)	The annual mass of native CO <sub>2</sub>	New	Increase - requires respondents to

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		produced and captured in the CO <sub>2</sub> -EOR project ( <i>m<sub>native</sub></i> ).		ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element will affect ~4 reporters annually.
	98.486(d)	The annual mass of CO <sub>2</sub> that is recycled and reinjected into the EOR complex.	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element will affect ~4 reporters annually.
	98.486(e)	The annual total mass of CO <sub>2</sub> loss from project operations ( <i>m<sub>loss operations</sub></i> ).	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element will affect ~4 reporters annually.
	98.486(e)(1)	Loss of CO <sub>2</sub> due to leakage from production, handling and recycling CO <sub>2</sub> -EOR facilities (infrastructure including wellheads) ( <i>m<sub>loss leakage</sub></i> facilities).	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element will affect ~4 reporters annually.
Subpart VV - Geologic Sequestration of Carbon Dioxide with	98.486(e)(2)	Loss of CO <sub>2</sub> from venting/flaring from production operations ( <i>m<sub>loss vent/flare</sub></i> ).	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element will affect ~4 reporters

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Enhanced Oil Recovery Using ISO 27916				annually.
	98.486(e)(3)	Loss of CO <sub>2</sub> due to entrainment within produced gas/oil/water when this CO <sub>2</sub> is not separated and reinjected (mloss entrained).	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element will affect ~4 reporters annually.
	98.486(e)(4)	Loss of CO <sub>2</sub> due to any transfer of CO <sub>2</sub> outside the CO <sub>2</sub> -EOR project (mloss transfer).	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element will affect ~4 reporters annually.
	98.486(f)	The total mass of CO <sub>2</sub> loss from the EOR complex (mloss EOR complex).	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element will affect ~4 reporters annually.
	98.486(g)(1)	Annual documentation as described in Clause 4.4 of CSA/ANSI ISO 27916:2019, including the formulas used to quantify the annual mass of associated storage, including the mass of CO <sub>2</sub> delivered to the CO <sub>2</sub> -EOR project and losses during the period covered by the documentation.	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element will affect ~4 reporters annually.
	98.486(g)(2)	Annual documentation as described	New	Increase - requires respondents to

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		in Clause 4.4 of CSA/ANSI ISO 27916:2019, including the methods used to estimate missing data and the amounts estimated as described in Clause 9.2.		ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element will affect ~4 reporters annually.
Subpart VV - Geologic Sequestration of Carbon Dioxide with Enhanced Oil Recovery Using ISO 27916	98.486(g)(3)	Annual documentation as described in Clause 4.4 of CSA/ANSI ISO 27916:2019, including the approach and method for quantification utilized by the operator, including accuracy, precision, and uncertainties.	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element will affect ~4 reporters annually.
	98.486(g)(4)	Annual documentation as described in Clause 4.4 of CSA/ANSI ISO 27916:2019, including a statement describing the nature of validation or verification including the date of review, process, findings, and responsible person or entity	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element will affect ~4 reporters annually.
	98.486(g)(5)	Annual documentation as described in Clause 4.4 of CSA/ANSI ISO 27916:2019, including source of each CO <sub>2</sub> stream quantified as associated storage.	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element will affect ~4 reporters annually.
	98.486(g)(6)	Annual documentation as described in Clause 4.4 of CSA/ANSI ISO 27916:2019, including a description of the procedures used to detect and	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This

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		characterize the total CO <sub>2</sub> leakage from the EOR complex		data element will affect ~4 reporters annually.
	98.486(g)(7)	Annual documentation as described in Clause 4.4 of CSA/ANSI ISO 27916:2019, including, if only the mass of anthropogenic CO <sub>2</sub> is considered for $m_{\text{stored}}$ , a description of the derivation and application of anthropogenic CO <sub>2</sub> allocation ratios for all the terms described in Clauses 8.1 to 8.4.6.	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element will affect ~4 reporters annually.
	98.486(g)(8)	Annual documentation as described in Clause 4.4 of CSA/ANSI ISO 27916:2019, including any documentation provided by a qualified independent engineer or geologist, who certifies that the documentation provided, including the mass balance calculations as well as information regarding monitoring and containment assurance, is accurate and complete.	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element will affect ~4 reporters annually.
Subpart VV - Geologic Sequestration of Carbon Dioxide with Enhanced Oil	98.488(h)	Any changes made within the reporting year to containment assurance and monitoring approaches and procedures in the EOR operations management plan	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element will affect ~4 reporters annually.

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Recovery Using ISO 27916	98.488(c)	EOR Operations Management Plan that provides a description of the EOR complex and engineered system, establishes that the EOR complex is adequate to provide safe, long-term containment of CO <sub>2</sub> , and includes site-specific and other information identified in 40 CFR 98.488(a).	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element will affect ~4 reporters annually.
	98.488(c)	Initial documentation at the beginning of the quantification period, including the information identified in 40 CFR 98.488(b).	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element will affect ~4 reporters annually.
WW – Coke Calciners	98.496(a)	The unit ID number (if applicable).	New	Increase – requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element applies all coke calciners and will affect ~15 reporters annually.
	98.496(b)	Maximum rated throughput of the unit, in metric tons coke calcined/stream day.	New	Increase – requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element applies all coke calciners and will affect ~15 reporters annually.
	98.496(c)	The calculated CO <sub>2</sub> , CH <sub>4</sub> , and N <sub>2</sub> O annual process emissions, expressed	New	Increase – requires respondents to calculate and ascertain the data element

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		in metric tons of each pollutant emitted.		using readily available or collected data and submit the value via e-GGRT as part of the annual report. This data element applies all coke calciners and will affect ~15 reporters annually.
	98.496(d)	A description of the method used to calculate the CO2 emissions for each unit (e.g., CEMS or Equation WW-1).	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element applies all coke calciners and will affect ~15 reporters annually.
WW - Coke Calciners	98.496(e)	Annual mass of green coke fed to the coke calcining unit from facility records (metric tons/year).	New	Increase - requires respondents to ascertain the data element using readily available or collected data and submit the value via e-GGRT as part of the annual report. This data element applies all coke calciners and will affect ~15 reporters annually.
	98.496(f)	Annual mass of marketable petroleum coke produced by the coke calcining unit from facility records (metric tons/year).	New	Increase - requires respondents to ascertain the data element using readily available or collected data and submit the value via e-GGRT as part of the annual report. This data element applies all coke calciners and will affect ~15 reporters annually.
	98.496(g)	Annual mass of petroleum coke dust removed from the process through the dust collection system of the coke	New	Increase - requires respondents to ascertain the data element using readily available or collected data and submit the

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		calcining unit from facility records (metric tons/year) and an indication of whether coke dust is recycled to the unit (e.g., all dust is recycled, a portion of the dust is recycled, or none of the dust is recycled).		value via e-GGRT as part of the annual report. This data element applies all coke calciners and will affect ~15 reporters annually.
	98.496(h)	Annual average mass fraction carbon content of green coke fed to the coke calcining unit from facility measurement data (metric tons C per metric ton green coke).	New	Increase - requires respondents to ascertain the data element using readily available or collected data and submit the value via e-GGRT as part of the annual report. This data element applies all coke calciners and will affect ~15 reporters annually.
	98.496(i)	Annual average mass fraction carbon content of marketable petroleum coke produced by the coke calcining unit from facility measurement data (metric tons C per metric ton petroleum coke).	New	Increase - requires respondents to ascertain the data element using readily available or collected data and submit the value via e-GGRT as part of the annual report. This data element applies all coke calciners and will affect ~15 reporters annually.
XX - Calcium Carbide Production	98.506(a)	Annual facility calcium carbide production capacity (tons).	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element applies all coke calciners and will affect ~15 reporters annually.
	98.506(b)	The annual facility production of calcium carbide (tons).	New	Increase - requires respondents to ascertain the data element using readily

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				or collected available data and submit the value via e-GGRT as part of the annual report. This data element applies all coke calciners and will affect ~15 reporters annually.
	98.506(c)	Total number of calcium carbide process units at facility used for production of calcium carbide.	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element applies all coke calciners and will affect ~15 reporters annually.
	98.506(d)	Annual facility consumption of petroleum coke (tons).	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element applies all coke calciners and will affect ~15 reporters annually.
	98.506(e)	Each end use of any calcium carbide produced and sent off site.	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element applies all coke calciners and will affect ~15 reporters annually.
	98.506(f)	If the facility produces acetylene on site, the information in paragraphs (f) (1), (2), and (3).  (1) The annual production of acetylene at the facility (tons).	New	Increase - requires respondents to ascertain the data element using readily available or collected data and submit the value via e-GGRT as part of the annual report. This data element applies all coke

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		(2) The annual quantity of calcium carbide used for the production of acetylene at the facility (tons).  (3) Each end use of any acetylene produced on site.		calciners and will affect ~15 reporters annually.
XX - Calcium Carbide Production	98.506(g)	If a CEMS is used to measure CO2 emissions, the relevant information required by § 98.36 for the Tier 4 Calculation Methodology and the information specified in paragraphs (1) and (2).  (1) Annual CO2 emissions (in metric tons) from each calcium carbide process unit.  (2) Identification number of each process unit.	New	Increase - requires respondents to calculate and ascertain the data element using readily available or collected data and submit the value via e-GGRT as part of the annual report. This data element applies all calcium carbide production facilities and will affect ~1 reporter annually.
	98.506(h)	If a CEMS is not used to measure CO2 process emissions, and the carbon mass balance procedure is used to determine CO2 emissions according to the requirements in § 98.503(b), the information specified in paragraphs (h)(1) through (3) of this section.  (1) Annual process CO2 emissions (in metric tons) from each calcium	New	Increase - requires respondents to calculate and ascertain the data element using readily available or collected data and submit the value via e-GGRT as part of the annual report. This data element applies all calcium carbide production facilities and will affect ~1 reporter annually.

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		<p>carbide process unit.</p> <p>(2) The method used for the determination of carbon content for each input and output material included in the calculation of annual process CO2 emissions for each calcium carbide process unit (e.g., supplier provided information, analyses of representative samples you collected).</p> <p>(3) If you use the missing data procedures in § 98.505(b), report for each calcium carbide production process unit how monthly mass of carbon-containing inputs and outputs with missing data were determined and the number of months the missing data procedures were used.</p>		
YY – Caprolactam, Glyoxal, and Glyoxylic Acid Production	98.516(a)	Process line identification number.	New	Increase – requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element applies all caprolactam, glyoxal, and glyoxylic acid production facilities and will affect ~6 reporters annually.
	98.516(b)	Annual process N <sub>2</sub> O emissions from	New	Increase – requires respondents to

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		each process line according to paragraphs (1) through (3): (1) N <sub>2</sub> O from caprolactam production (metric tons). (2) N <sub>2</sub> O from glyoxal production (metric tons). (3) N <sub>2</sub> O from glyoxylic acid production (metric tons).		calculate and ascertain the data element using readily available or collected data and submit the value via e-GGRT as part of the annual report. This data element applies all caprolactam, glyoxal, and glyoxylic acid production facilities and will affect ~6 reporters annually.
	98.516(c)	Annual production quantities from all process lines at the caprolactam, glyoxal, or glyoxylic acid production facility according to paragraphs (1) through (3): (1) Caprolactam production (metric tons). (2) Glyoxal production (metric tons). (3) Glyoxylic acid production (metric tons).	New	Increase - requires respondents to ascertain the data element using readily available or collected data and submit the value via e-GGRT as part of the annual report. This data element applies all caprolactam, glyoxal, and glyoxylic acid production facilities and will affect ~6 reporters annually.
YY - Caprolactam, Glyoxal, and Glyoxylic Acid Production	98.516(d)	Annual production capacity from all process lines at the caprolactam, glyoxal, or glyoxylic acid production facility, as applicable, in paragraphs (1) through (3): (1) Caprolactam production capacity (metric tons).	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element applies all caprolactam, glyoxal, and glyoxylic acid production facilities and will affect ~6 reporters

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		(2) Glyoxal production capacity (metric tons).  (3) Glyoxylic acid production capacity (metric tons).		annually.
	98.516(e)	Number of process lines at the caprolactam, glyoxal, or glyoxylic acid production facility, by product, in paragraphs (1) through (3):  (1) Total number of process lines producing caprolactam.  (2) Total number of process lines producing glyoxal.  (3) Total number of process lines producing glyoxylic acid.	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element applies all caprolactam, glyoxal, and glyoxylic acid production facilities and will affect ~6 reporters annually.
	98.516(f)	Number of operating hours in the calendar year for each process line at the caprolactam, glyoxal, or glyoxylic acid production facility (hours).	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element applies all caprolactam, glyoxal, and glyoxylic acid production facilities and will affect ~6 reporters annually.
YY - Caprolactam, Glyoxal, and Glyoxylic Acid	98.516(g)	N <sub>2</sub> O abatement technologies used (if applicable) and date of installation of abatement technology at the caprolactam, glyoxal, or glyoxylic acid	New	Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This

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Production		production facility.		data element applies all caprolactam, glyoxal, and glyoxylic acid production facilities and will affect ~6 reporters annually.
	98.516(h)	Monthly abatement utilization factor for each N <sub>2</sub> O abatement technology at the caprolactam, glyoxal, or glyoxylic acid production facility.	New	Increase – requires respondents to calculate and ascertain the data element using readily available or collected data and submit the value via e-GGRT as part of the annual report. This data element applies all caprolactam, glyoxal, and glyoxylic acid production facilities and will affect ~6 reporters annually.
	98.516(i)	Number of times in the reporting year that missing data procedures were followed to measure production quantities of caprolactam, glyoxal, or glyoxylic acid (months).	New	Increase – requires respondents to ascertain the data element using readily available or collected data and submit the value via e-GGRT as part of the annual report. This data element applies all caprolactam, glyoxal, and glyoxylic acid production facilities and will affect ~6 reporters annually.
	98.516(j)	Annual percent N <sub>2</sub> O emission reduction per chemical produced at the caprolactam, glyoxal, or glyoxylic acid production facility, as applicable, in (1) through (3):  (1) Annual percent N <sub>2</sub> O emission reduction for caprolactam production.	New	Increase – requires respondents to calculate and ascertain the data element using readily available or collected data and submit the value via e-GGRT as part of the annual report. This data element applies all caprolactam, glyoxal, and glyoxylic acid production facilities and will affect ~6 reporters annually.

**SUPPORTING STATEMENT:**

**ENVIRONMENTAL PROTECTION AGENCY**

**OMB control number 2060-0629; ICR number 2300.21**

**Attachment 1**

Subpart	Citation	Data Element(s) Required to be Reported	Change or Revision	Change in Burden
		<p>(2) Annual percent N<sub>2</sub>O emission reduction for glyoxal production.</p> <p>(3) Annual percent N<sub>2</sub>O emission reduction for glyoxylic acid production.</p>		
ZZ - Ceramics Manufacturing	98.526(a)	The total number of ceramics process units at the facility and the number of units that operated during the reporting year.		Increase - requires respondents to ascertain the data element using readily available data and submit the value via e-GGRT as part of the annual report. This data element applies to all ceramics production facilities and will affect ~25 reporters annually.
	98.526(b)	<p>If a CEMS is used to measure CO<sub>2</sub> emissions from ceramics process units, the relevant information required under § 98.36 for the Tier 4 Calculation Methodology and the following information specified in paragraphs (1) through (3).</p> <p>(1) The annual quantity of each carbonate-based raw material (including clay) charged to each ceramics process unit and for all units combined (tons).</p> <p>(2) Annual quantity of each type of ceramics product manufactured by each ceramics process unit and by all</p>		Increase - requires respondents to ascertain the data element using readily available or collected data and submit the value via e-GGRT as part of the annual report. This data element applies to all ceramics production facilities and will affect ~34 reporters annually.

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Subpart	Citation	Data Element(s) Required to be Reported	Change or Revision	Change in Burden
		<p>units combined (tons).</p> <p>(3) Annual production capacity for each ceramics process unit (tons).</p>		
ZZ – Ceramics Manufacturing	98.526(c)	<p>If a CEMS is not used to measure CO2 emissions from ceramics process units and process CO2 emissions are calculated according to the procedures specified in § 98.523(b), the following information specified in paragraphs (1) through (7).</p> <p>(1) Annual process emissions of CO2 (metric tons) for each ceramics process unit and for all units combined.</p> <p>(2) The annual quantity of each carbonate-based raw material charged to each ceramics process unit and all units combined (tons).</p> <p>(3) Results of all tests used to verify each carbonate-based mineral mass fraction for each carbonate-based raw material charged to a ceramics process unit, as specified in paragraphs (c)(3)(i) through (iii) of this section.</p>		<p>Increase – requires respondents to calculate and ascertain the data element using readily available or collected data and submit the value via e-GGRT as part of the annual report. This data element applies to all ceramics production facilities and will affect ~25 reporters annually.</p>

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**Attachment 1**

<b>Subpart</b>	<b>Citation</b>	<b>Data Element(s) Required to be Reported</b>	<b>Change or Revision</b>	<b>Change in Burden</b>
		<p>(i) Date of test.</p> <p>(ii) Method(s) and any variations used in the analyses.</p> <p>(iii) Mass fraction of each sample analyzed.</p> <p>(4) Method used to determine the decimal mass fraction of carbonate-based mineral, unless you used the default value of 1.0 (e.g., supplier provided information, analyses of representative samples you collected).</p> <p>(5) Annual quantity of each type of ceramics product manufactured by each ceramics process unit and by all units combined (tons).</p> <p>(6) Annual production capacity for each ceramics process unit (tons).</p> <p>(7) If you use the missing data procedures in § 98.525(b), report for each applicable ceramics process unit the number of times in the reporting year that missing data procedures were followed to measure monthly quantities of carbonate-based raw</p>		

**SUPPORTING STATEMENT:**

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<b>Subpart</b>	<b>Citation</b>	<b>Data Element(s) Required to be Reported</b>	<b>Change or Revision</b>	<b>Change in Burden</b>
		materials or mass fraction of the carbonate-based minerals (months).		

**Table 2. New Recordkeeping Requirements by Source Category**

Subpart	New Recordkeeping Requirements
I – Electronics Manufacturing	The certified destruction and removal efficiency values for all applicable abatement systems, if you use either default of certified destruction or removal efficiency values that are lower than the default values in your emissions calculations under §98.93(a), (b), and/or (i).
	For abatement systems purchased and installed on or after January 1, 2025, include records of the method used to measure the destruction and removal efficiency values.
	All inputs and results made accounting for the fraction of gas exhausted through abatement systems using equations I-24c and I-24d.
	For all hydrocarbon-fuel-based emissions control systems that are used to control emissions from tools that use either $NF_3$ as an input gas in remote plasma clean processes or $F_2$ as an input gas in any process type or sub-type, certification and documentation that the model for each of the systems that you assume does not form $CF_4$ from $F_2$ has been tested and verified to produce less than 0.1% $CF_4$ from $F_2$ .
	For all hydrocarbon-fuel-based emissions control systems that are used to control emissions from tools that use either $NF_3$ as an input gas in remote plasma clean processes or $F_2$ as an input gas in any process type or sub-type, certification that the site maintenance plan includes the emission control system manufacturer’s recommendations and specifications for installation, operation, and maintenance of those systems
N – Glass Production	If a CEMS is used to measure emissions, monthly glass production rate for each continuous glass melting furnace, by glass type (tons)
	If process $CO_2$ emissions are calculated according to the procedures specified in §98.143(b), monthly glass production rate for each continuous glass melting furnace, by glass type (metric tons).
	If a CEMS is used to measure emissions, monthly amount (tons) of recycled scrap glass (cullet) charged to each continuous glass melting furnace, by glass type.
	If process $CO_2$ emissions are calculated according to the procedures specified in §98.143(b), monthly amount (tons) of recycled scrap glass (cullet) charged to each continuous glass melting furnace, by glass type.
P – Hydrogen Production	If the CEMS measures emissions from a common stack for multiple hydrogen production units or emissions from a common stack for hydrogen production unit(s) and other source(s), records used to estimate the decimal fraction of the total annual $CO_2$ emissions from the CEMS monitoring location attributable to each hydrogen production unit.
	Records of all analyses and calculations conducted to determine the values reported as listed in §98.166(b).
Y – Petroleum Refineries	Mass of water in the delayed coking unit vessel at the end of the cooling cycle prior to atmospheric venting or draining (metric ton/cycle) for each delayed coking unit (Equations Y-18b and Y-18e in § 98.253).
	Typical distance from the bottom of the coking unit vessel to the top of the water level at the end of the cooling cycle just prior to atmospheric venting or draining (feet) from company records or engineering estimates for each delayed coking unit (Equation Y-18b in § 98.253).
	Fraction of the coke-filled bed that is covered by water at the end of the cooling cycle just prior to atmospheric venting or draining for each delayed coking unit (Equation Y-18b in § 98.253).
BB – Silicon	Records of all information reported as required under §98.286(c).

Subpart	New Recordkeeping Requirements
Carbide Production	
DD – Electrical Equipment Use	For each piece of electrical equipment whose nameplate capacity is measured by the equipment user, equipment manufacturer name.
	For each piece of electrical equipment whose nameplate capacity is measured by the equipment user, year equipment was manufactured, or a best estimate of the year of manufacture and how the estimate was determined.
	For each piece of electrical equipment whose nameplate capacity is measured by the equipment user, manufacturer serial number or another unique identifier.
	For each piece of electrical equipment whose nameplate capacity is measured by the equipment user, equipment type (i.e., closed-pressure vs. hermetically sealed-pressure).
	For each piece of electrical equipment whose nameplate capacity is measured by the equipment user, equipment voltage capacity (in kilovolts).
	For each piece of electrical equipment whose nameplate capacity is measured by the equipment user, the name and GWP of each covered insulating gas used.
	For each piece of electrical equipment whose nameplate capacity is measured by the equipment user, nameplate capacity value (pounds), as specified by the equipment manufacturer.
	For each piece of electrical equipment whose nameplate capacity is measured by the equipment user, nameplate capacity value (pounds) measured by the equipment user.
	For each piece of electrical equipment whose nameplate capacity is measured by the equipment user, the date the nameplate capacity measurement process was completed.
	For each piece of electrical equipment whose nameplate capacity is measured by the equipment user, the measurements and calculations used to calculate the measured value.
	For each piece of electrical equipment whose nameplate capacity is measured by the equipment user, the temperature-pressure curve and/or other information used to derive the initial and final temperature-adjusted pressures of the equipment.
	For each piece of electrical equipment whose nameplate capacity is measured by the equipment user, whether or not the measured nameplate capacity value has been adopted for the piece of electrical equipment.
HH – Municipal Solid Waste Landfills	Records of the data used to calculate and report the GHG emissions in § 98.346.
VV - Geologic Sequestration of Carbon Dioxide with Enhanced Oil Recovery Using ISO 27916	Records as required by §98.3(g) and as set forth in Clause 9.1 of CSA/ANSI ISO 27916:2019.
WW – Coke Calciners	Records of all parameters monitored under § 98.494.
	A record of the file generated by the verification software specified in § 98.5(b) for the monthly mass of green coke fed to the coke calcining unit from facility records (metric tons/year)

Subpart	New Recordkeeping Requirements
	<p>(Equation WW-1 of § 98.493).</p> <p>A record of the file generated by the verification software specified in § 98.5(b) for the monthly mass of marketable petroleum coke produced by the coke calcining unit from facility records (metric tons/year) (Equation WW-1).</p> <p>A record of the file generated by the verification software specified in § 98.5(b) for the monthly mass of petroleum coke dust removed from the process through the dust collection system of the coke calcining unit from facility records (metric tons/year) (Equation WW-1).</p> <p>A record of the file generated by the verification software specified in § 98.5(b) for the average monthly mass fraction carbon content of green coke fed to the coke calcining unit from facility measurement data (metric tons C per metric ton green coke) (Equation WW-1).</p> <p>A record of the file generated by the verification software specified in § 98.5(b) for the average monthly mass fraction carbon content of marketable petroleum coke produced by the coke calcining unit from facility measurement data (metric tons C per metric ton petroleum coke) (Equation WW-1).</p>
XX – Calcium Carbide Production	<p>If a CEMS is used to measure CO<sub>2</sub> emissions according to the requirements in § 98.503(a), the records required for the Tier 4 Calculation Methodology in § 98.37.</p> <p>If a CEMS is used to measure CO<sub>2</sub> emissions according to the requirements in § 98.503(a), monthly calcium carbide process unit production quantity (tons).</p> <p>If a CEMS is used to measure CO<sub>2</sub> emissions according to the requirements in § 98.503(a), number of calcium carbide processing unit operating hours each month.</p> <p>If a CEMS is used to measure CO<sub>2</sub> emissions according to the requirements in § 98.503(a), number of calcium carbide processing unit operating hours in a calendar year.</p> <p>If the carbon mass balance procedure is used to determine CO<sub>2</sub> emissions according to the requirements in § 98.503(b)(2), monthly calcium carbide process unit production quantity (tons).</p> <p>If the carbon mass balance procedure is used to determine CO<sub>2</sub> emissions according to the requirements in § 98.503(b)(2), number of calcium carbide process unit operating hours each month.</p> <p>If the carbon mass balance procedure is used to determine CO<sub>2</sub> emissions according to the requirements in § 98.503(b)(2), number of calcium carbide process unit operating hours in a calendar year.</p> <p>If the carbon mass balance procedure is used to determine CO<sub>2</sub> emissions according to the requirements in § 98.503(b)(2), monthly material quantity consumed, used, or produced for each material included for the calculations of annual process CO<sub>2</sub> emissions (tons).</p> <p>If the carbon mass balance procedure is used to determine CO<sub>2</sub> emissions according to the requirements in § 98.503(b)(2), average carbon content determined and records of the supplier provided information or analyses used for the determination for each material included for the calculations of annual process CO<sub>2</sub> emissions.</p> <p>Records that include a detailed explanation of how company records of measurements are used to estimate the carbon input and output to each calcium carbide process unit, including documentation of specific input or output materials excluded from Equation XX-1 that contribute less than 1 percent of the total carbon into or out of the process. Records documenting the procedures used to ensure the accuracy of the measurements of materials fed, charged, or placed in a calcium carbide process unit including, but not limited to, calibration of weighing equipment and other measurement devices; the estimated accuracy of measurements made with these devices; and the technical basis of the estimates.</p> <p>A record of the file generated by the verification software specified in § 98.5(b) for carbon content in reducing agent (percent by weight, expressed as a decimal fraction) (Equation XX-1 of § 98.503).</p>

Subpart	New Recordkeeping Requirements
	A record of the file generated by the verification software specified in § 98.5(b) for annual mass of reducing agent fed, charged, or otherwise introduced into the calcium carbide process unit (tons) (Equation XX-1).
	A record of the file generated by the verification software specified in § 98.5(b) for carbon content of carbon electrode (percent by weight, expressed as a decimal fraction) (Equation XX-1).
	A record of the file generated by the verification software specified in § 98.5(b) for annual mass of carbon electrode consumed in the calcium carbide process unit (tons) (Equation XX-1).
	A record of the file generated by the verification software specified in § 98.5(b) for carbon content in product (percent by weight, expressed as a decimal fraction) (Equation XX-1).
	A record of the file generated by the verification software specified in § 98.5(b) for annual mass of product produced/tapped in the calcium carbide process unit (tons) (Equation XX-1).
	A record of the file generated by the verification software specified in § 98.5(b) for carbon content in non-product outgoing material (percent by weight, expressed as a decimal fraction) (Equation XX-1).
	A record of the file generated by the verification software specified in § 98.5(b) for annual mass of non-product outgoing material removed from calcium carbide process unit (tons) (Equation XX-1).
YY – Caprolactam, Glyoxal, and Glyoxylic Acid Production	Documentation of how accounting procedures were used to estimate production rate.
	Documentation of how process knowledge was used to estimate abatement technology destruction efficiency (if applicable).
	Documentation of the procedures used to ensure the accuracy of the measurements of all reported parameters, including but not limited to, calibration of weighing equipment, flow meters, and other measurement devices; the estimated accuracy of measurements made with these devices; and the technical basis for these estimates.
	A record of the file generated by the verification software specified in § 98.5(b) for monthly production quantity of caprolactam from all process lines at the caprolactam, glyoxal, or glyoxylic acid production facility.
	A record of the file generated by the verification software specified in § 98.5(b) for monthly production quantity of glyoxal from all process lines at the caprolactam, glyoxal, or glyoxylic acid production facility.
	A record of the file generated by the verification software specified in § 98.5(b) for monthly production quantity of glyoxylic acid from all process lines at the caprolactam, glyoxal, or glyoxylic acid production facility.
ZZ – Ceramics Manufacturing	If a CEMS is used to measure CO <sub>2</sub> emissions according to the requirements in § 98.523(a), the records required under § 98.37 for the Tier 4 Calculation Methodology.
	If a CEMS is used to measure CO <sub>2</sub> emissions according to the requirements in § 98.523(a), records of the monthly ceramics production rate for each ceramics process unit (tons).
	If a CEMS is used to measure CO <sub>2</sub> emissions according to the requirements in § 98.523(a), records of the monthly amount of each carbonate-based raw material charged to each ceramics process unit (tons).
	If process CO <sub>2</sub> emissions are calculated according to the procedures specified in § 98.523(b), records of monthly ceramics production rate for each ceramics process unit (metric tons).
	If process CO <sub>2</sub> emissions are calculated according to the procedures specified in § 98.523(b), records of the monthly amount of each carbonate-based raw material charged to each ceramics process unit (metric tons).

Subpart	New Recordkeeping Requirements
	If process CO <sub>2</sub> emissions are calculated according to the procedures specified in § 98.523(b), data on carbonate-based mineral mass fractions provided by the raw material supplier for all raw materials consumed annually and included in calculating process emissions in Equation ZZ-1, if applicable.
	If process CO <sub>2</sub> emissions are calculated according to the procedures specified in § 98.523(b), results of all tests, if applicable, used to verify the carbonate-based mineral mass fraction for each carbonate-based raw material charged to a ceramics process unit, including the data specified in paragraphs (i) through (v). (i) Date of test. (ii) Method(s), and any variations of methods, used in the analyses. (iii) Mass fraction of each sample analyzed. (iv) Relevant calibration data for the instrument(s) used in the analyses. (v) Name and address of laboratory that conducted the tests.
	If process CO <sub>2</sub> emissions are calculated according to the procedures specified in § 98.523(b), records of each carbonate-based mineral mass fraction for each carbonate-based raw material, if a value other than 1.0 is used to calculate process mass emissions of CO <sub>2</sub> .
	If process CO <sub>2</sub> emissions are calculated according to the procedures specified in § 98.523(b), the number of annual operating hours of each ceramics process unit.
	Records of all other documentation used to support the reported GHG emissions.
	A record of the file generated by the verification software specified in § 98.5(b) for the annual average decimal mass fraction of each carbonate-based mineral in each carbonate-based raw material for each ceramics process unit (specify the default value, if used, or the value determined according to § 98.524) (percent by weight, expressed as a decimal fraction) (Equation ZZ-1).
	A record of the file generated by the verification software specified in § 98.5(b) for the annual mass of each carbonate-based raw material charged to each ceramics process unit (tons) (Equation ZZ-1).
	A record of the file generated by the verification software specified in § 98.5(b) for the decimal fraction of calcination achieved for each carbonate-based raw material for each ceramics process unit (specify the default value, if used, or the value determined according to § 98.524) (percent by weight, expressed as a decimal fraction) (Equation ZZ-1).

**SUPPORTING STATEMENT:**

**ENVIRONMENTAL PROTECTION AGENCY**

**OMB control number 2060-0629; ICR number 2300.18**

**Attachment 2**