MEMORANDUM-FINAL DATA CATEGORY ASSIGNMENTS AND CONFIDENTIALITY DETERMINATIONS FOR THE 2012 FINAL CBI RULE

To: Docket EPA-HQ-OAR-2011-0028

From: Lisa Bacanskas, EPA, Climate Change Division

Date: August 1, 2012

Subject: Final data category assignments for data reporting elements in 40 CFR part 98, subparts I, W, DD, II, QQ, RR, SS, TT, and UU.

In this memorandum, we show the final data category assignments for data reporting elements in subparts I, W, DD, II, QQ, RR, SS, TT, and UU of 40 CFR part 98 (hereafter referred to as "Part 98") as referenced in the *Final Confidentiality Determinations for Nine Subparts and Amendments to Subpart A and I under the Mandatory Reporting of Greenhouse Gases Rule* (hereafter referred to as the "2012 Final CBI Rule").

Appendix A of this memorandum consists of four tables. Table 1 of Appendix A shows the final data category assignments and CBI determinations for data reporting elements in direct emitter subparts I, W, DD, II, RR,[1] SS, and TT.

For subparts II and TT, Table 1 includes confidentiality determinations for the new data elements that were added subsequent to the 2011 Final CBI Rule, which finalized confidentiality determinations for subpart II and TT data elements except those in the inputs to equations category.[2] Each data element in Table 1 is assigned to one of the 10 direct emitter data categories. Each data element has been marked to indicate whether it has been determined to be emission data; not emission data and CBI; not emission data and not CBI; or not emission data but no CBI determination has been made.[3]

Similarly, Table 2 includes the complete list of supplier data elements for which we have finalized data category assignments and CBI determinations in the 2012 Final CBI Rule for subparts QQ, RR, and UU. Each data element is assigned to one of the 11 supplier data categories. Each data element has been marked to indicate whether it has been determined to be

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[1] Subpart RR contains elements of both direct emitter and supplier categories and is therefore listed as both a direct emitter and a supplier source category. For the purposes of this action, EPA placed each subpart RR data element into the appropriate category based on its data type, data characteristics, and whether it related to direct emissions from the facility or to GHG supply.

[2] The category assignments and CBI determinations for all other subpart II and TT data elements (excluding inputs) were finalized in *Confidentiality Determinations for Data Required Under the Mandatory Greenhouse Gas Reporting Rule and Amendments to Special Rules Governing Certain Information Obtained Under the Clean Air Act; hereafter referred to as the* "2011 Final CBI rule") (see 75 FR 30782, May 26, 2011) and are listed in a separate memorandum titled *Final Data Category Assignments and Confidentiality Determinations for Part 98 Reporting Elements* (see http://www.epa.gov/climatechange/emissions/downloads11/documents/CBI-final-data-category.pdf).

[3] The EPA will evaluate the confidentiality status of data elements with no determination on a case-by-case basis, in accordance with existing CBI regulations in 40 CFR part 2, subpart B.

not emission data and not CBI; not emission data and CBI; or not emission data but no CBI determination has been made (case-by-case determination).

Table 3 contains the list of data elements which we have assigned to the "Inputs to Emission Equations" data category in the 2012 Final CBI rule. These include inputs in subparts W, FF, and TT that were added by the Technical Corrections final rule (76 FR 73886, November 29, 2011). No final confidentiality determinations have been made for the data elements listed in Table 3. These data elements have been added to either Table A-6 or A-7 of subpart A of Part 98, thus deferring their reporting deadline until either March 31, 2013 (Table A-6 of subpart A of Part 98) or March 31, 2015 (Table A-7 of subpart A of Part 98).

Table 4 contains the list of recipe-specific subpart I data elements for which we have not finalized confidentiality determinations in the 2012 Final CBI Rule. These data elements include all recipe-specific subpart I data elements (excluding inputs). As noted above, data category assignments and final CBI determinations for all other subpart I data elements (excluding inputs to emission equations for which the reporting deadline has been deferred) can be found in Table 1 of this memorandum.

For Additional Information

For background and other information relative to the category assignments and CBI determinations made in the 2012 Final CBI Rule, please see *Proposed Confidentiality Determinations for Data Elements Under the Mandatory Reporting of Greenhouse Gases Rule* (77 FR 1434, January 10, 2012), the *Mandatory Reporting of Greenhouse Gases Rule: Confidentiality Determinations and Best Available Monitoring Methods Provisions* (77 FR 10434, February 22, 2012), *Proposed Confidentiality Determinations for the Petroleum and Natural Gas Systems Source Category, and Amendments to Table A-7, of the Greenhouse Gas Reporting Rule* (77 FR 11039, February 24, 2012), and the preamble to the 2012 Final CBI Rule. For information about the deferred data elements, please see *Change to the Reporting Date for Certain Data Elements Required Under the Mandatory Reporting of Greenhouse Gases Rule* (76 FR 53057, August 25, 2011). Copies of these rules and other information are available on the EPA's website: http://www.epa.gov/climatechange/emissions/CBI.html.

For an explanation of our approach to making CBI determinations and descriptions of the 11 direct emitter and 11 supplier data categories, see the preambles to the proposed and final rulemakings: *Proposed Confidentiality Determinations for Data Required Under the Mandatory Greenhouse Gas Reporting Rule and Proposed Amendment to Special Rules Governing Certain Information Obtained Under the Clean Air Act* published on July 7, 2010 (75 FR 39094); and *Confidentiality Determinations for Data Required under the Mandatory Greenhouse Gas Reporting Rule and Amendment to Special Rules Governing Certain Information Obtained under the Clean Air Act* published on May 26, 2011 (76 FR 30782). Copies of the proposed and final rules are available on the EPA's website: http://www.epa.gov/climatechange/emissions/CBI.html, at the following links: http://www.gpo.gov/fdsys/pkg/FR-2010-07-07/pdf/2010-16317.pdf and http://www.gpo.gov/fdsys/pkg/FR-2011-05-26/pdf/2011-12930.pdf.

Appendix A

Table 1: List of Final Data Category Assignments and CBI Determinations for Direct Emitter Subparts I, W, DD, II, RR, SS, and TT.

Key:

E = assigned in this final rule to a category with a categorical determination of "emission data"
C = assigned in this final rule to a category with a categorical determination of "not emission data and CBI"
X = assigned in this final rule to a category with a categorical determination of "not emission data and not CBI"
PC = assigned in this final rule to a category without a categorical determination and is CBI
PX = assigned in this final rule to a category without a categorical determination and is not CBI
ND = no determination has been made for this data element (case-by-case CBI determination)

			Category									
Subpart	**Data Element**	**Reporting Section**	**Facility and Unit Identifier Information**	**Emissions**	**Unit/Process Static Characteristics That are Not Inputs to Emission Equations**	**Unit/Process Operating Characteristics That are Not Inputs to Emission Equations**	**Calculation Methodology & Method. Tier**	**Test & Calibration Methods**	**Production/ Throughput Data That are Not Inputs to Emission Equations**	**Raw Materials Consumed That are Not Inputs to Emission Equations**	**Data Elements Reported for Periods of Missing Data that are Not Inputs to Emission Equations**	**Process Specific & Vendor Data Submitted in BAMM Extension Requests**
Final Confidentiality Determinations			Emission Data (made available to the public)	Emission Data (made available to the public)	Both	Both	Emission Data (made available to the public)	Not CBI	CBI	CBI	Emission Data (made available to the public)	CBI
I - Electronics Manufacturing	For extension requests for the use of BAMM in 2011 for parameters other than recipe-specific utilization and by-product formation rates for the plasma etching process type: List of specific items of monitoring instrumentation and measuring services for which the request is being made.	98.94a2iiA	E									
I - Electronics Manufacturing	For extension requests for the use of BAMM in 2011 for parameters other than recipe-specific utilization and by-product formation rates for the plasma etching process type: Locations where each piece of monitoring instrumentation will be installed and where each measurement service will be provided.	98.94a2iiA										C
I - Electronics Manufacturing	For extension requests for the use of BAMM in 2011 for parameters other than recipe-specific utilization and by-product formation rates for the plasma etching process type: Specific rule requirements for which the instrumentation or measurement service is needed.	98.94a2iiB					E					
I - Electronics Manufacturing	For extension requests for the use of BAMM in 2011 for parameters other than recipe-specific utilization and by-product formation rates for the plasma etching process type: Reasons why the needed equipment could not be obtained, installed, or operated or why the needed measurement service could not be provided before July 1, 2011.	98.94a2iiC				PC						
I - Electronics Manufacturing	For extension requests for the use of BAMM in 2011 for parameters other than recipe-specific utilization and by-product formation rates for the plasma etching process type: If the reason for the extension is that the equipment cannot be purchased, delivered, or installed before July 1, 2011, include supporting documentation (e.g., date the monitoring equipment was ordered, investigation of alternative suppliers, or the dates by which alternative vendors promised delivery or installation).	98.94a2iiD										C
I - Electronics Manufacturing	For extension requests for the use of BAMM in 2011 for parameters other than recipe-specific utilization and by-product formation rates for the plasma etching process type: If the reason for the extension is that the equipment cannot be purchased, delivered, or installed before July 1, 2011, include supporting documentation (e.g., backorder notices or unexpected delays or descriptions of actions taken to expedite delivery or installation).	98.94a2iiD				PX						
I - Electronics Manufacturing	For extension requests for the use of BAMM in 2011 for parameters other than recipe-specific utilization and by-product formation rates for the plasma etching process type: If the reason for the extension is that service providers were unable to provide necessary measurement services, include supporting documentation demonstrating that these services could not be acquired before July 1, 2011. This documentation must include written correspondence to and from at least three service providers stating that they will not be available to provide the necessary services before July 1, 2011.	98.94a2iiE				PX						
I - Electronics Manufacturing	For extension requests for the use of BAMM in 2011 for parameters other than recipe-specific utilization and by-product formation rates for the plasma etching process type: Specific best available monitoring methods that the facility will use in place of the required methods.	98.94a2iiF					E					
I - Electronics Manufacturing	For extension requests for the use of BAMM in 2011 for parameters other than recipe-specific utilization and by-product formation rates for the plasma etching process type: Specific actions the owner or operator will take to comply with monitoring requirements by January 1, 2012.	98.94a2iiG				PX						
I - Electronics Manufacturing	For extension requests for the use of BAMM beyond 2011: List of parameters for which the owner or operator is seeking use of best available monitoring methods beyond 2011.	98.94a4iiA					E					
I - Electronics Manufacturing	For extension requests for the use of BAMM beyond 2011: Specific rule requirements that the owner or operator cannot meet.	98.94a4iiB					E					
I - Electronics Manufacturing	For extension requests for the use of BAMM beyond 2011: Explanation as to why the requirements cannot be met.	98.94a4iiB				PC						
I - Electronics Manufacturing	For extension requests for the use of BAMM beyond 2011: Description of the unique circumstances necessitating an extension, including specific technical infeasibilities that conflict with data collection.	98.94a4iiC				PX						
I - Electronics Manufacturing	For extension requests for the use of BAMM beyond 2011: Description of the unique circumstances necessitating an extension, including specific data collection issues that do not meet safety regulations or specific laws or regulations that conflict with data collection.	98.94a4iiC				PX						
I - Electronics Manufacturing	For extension requests for the use of BAMM beyond 2011: Explanation and supporting documentation of how the owner or operator will receive the required data and/or services to comply with the reporting requirements.	98.94a4iiD				PX						
I - Electronics Manufacturing	For extension requests for the use of BAMM beyond 2011: Explanation and supporting documentation of when the owner or operator will receive the required data and/or services to comply with the reporting requirements.	98.94a4iiD				PC						
I - Electronics Manufacturing	For extension requests for the use of BAMM beyond 2011: Description of the specific best available monitoring methods that the facility will use in place of the required methods.	98.94a4iiE					E					

Table 1: List of Final Data Category Assignments and CBI Determinations for Direct Emitter Subparts I, W, DD, II, RR, SS, and TT.

Key:

E = assigned in this final rule to a category with a categorical determination of "emission data"
C = assigned in this final rule to a category with a categorical determination of "not emission data and CBI"
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PC = assigned in this final rule to a category without a categorical determination and is CBI
PX = assigned in this final rule to a category without a categorical determination and is not CBI
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			Category										
Subpart	**Data Element**	**Reporting Section**	**Facility and Unit Identifier Information**	**Emissions**	**Unit/Process Static Characteristics That are Not Inputs to Emission Equations**	**Unit/Process Operating Characteristics That are Not Inputs to Emission Equations**	**Calculation Methodology & Method. Tier**	**Test & Calibration Methods**	**Production/ Throughput Data That are Not Inputs to Emission Equations**	**Raw Materials Consumed That are Not Inputs to Emission Equations**	**Data Elements Reported for Periods of Missing Data that are Not Inputs to Emission Equations**	**Process Specific & Vendor Data Submitted in BAMM Extension Requests**
Final Confidentiality Determinations			Emission Data (made available to the public)	Emission Data (made available to the public)	Both	Both	Emission Data (made available to the public)	Not CBI	CBI	CBI	Emission Data (made available to the public)	CBI
I - Electronics Manufacturing	Annual manufacturing capacity of a facility as determined in Equation I-5.	98.96a				ND						
I - Electronics Manufacturing	For facilities that manufacture semiconductors, the diameter of wafers manufactured at a facility.	98.96b				PX						
I - Electronics Manufacturing	Annual emissions of each F-GHG emitted from each process type for which your facility is required to calculate emissions as calculated in Equations I-6 and I-7.	98.96c1		E								
I - Electronics Manufacturing	Annual emissions of each F-GHG emitted from each process sub-type as calculated in Equations I-8 and I-9.	98.96c2		E								
I - Electronics Manufacturing	Emissions of N2O emitted from each chemical vapor deposition process and from other N2O using manufacturing processes as calculated in Equation I-10.	98.96c3		E								
I - Electronics Manufacturing	Emissions of each heat transfer fluid emitted as calculated in Equation I-16.	98.96c4		E								
I - Electronics Manufacturing	The method of emissions calculation used in 40 CFR 98.93.	98.96d					E					
I - Electronics Manufacturing	Annual production in terms of substrate surface area.	98.96e							C			
I - Electronics Manufacturing	When you use factors for F-GHG process utilization and by-product formation rates other than the defaults provided in Tables I-3, I-4, I-5, I-6, and I-7 and/or N2O utilization factors other than the defaults provided in Table I-8, source of the facility-specific-N2O utilization factors.	98.96f5						X				
I - Electronics Manufacturing	When you use factors for F-GHG process utilization and by-product formation rates other than the defaults provided in Tables I-3, I-4, I-5, I-6, and I-7 and/or N2O utilization factors other than the defaults provided in Table I-8, certification that the conditions under which the measurements were made for facility-specific N2O utilization factors are representative of your facility's N2O emitting production processes.	98.96f6				PX						
I - Electronics Manufacturing	For all F-GHG or N2O used at your facility for which you have not calculated emissions using Equations I-6 through I-10: Report the chemical name of the GHG used.	98.96g								C		
I - Electronics Manufacturing	For all F-GHG or N2O used at your facility for which you have not calculated emissions using Equations I-6 through I-10: Report the annual consumption of the gas.	98.96g								C		
I - Electronics Manufacturing	For all F-GHG or N2O used at your facility for which you have not calculated emissions using Equations I-6 through I-10: Report a brief description of GHG use.	98.96g			PC							
I - Electronics Manufacturing	Identification of the quantifiable metric used in your facility-specific engineering model to apportion gas consumption (may not be reported in 2011, 2012, and 2013).	98.96mi			ND							
I - Electronics Manufacturing	Start and end dates selected under 40 CFR 98.94(c)(2)(i).	98.96mii						X				
I - Electronics Manufacturing	Certification that the gases you selected under 40 CFR 98.94(c)(2)(ii) correspond to the largest quantities consumed on a mass basis, at your facility in the reporting year for the plasma etching process type.	98.96miii						X				
I - Electronics Manufacturing	Certification that the gases you selected under 40 CFR 98.94(c)(2)(ii) correspond to the largest quantities consumed on a mass basis, at your facility in the reporting year for the chamber cleaning process type.	98.96miii						X				
I - Electronics Manufacturing	The result of the calculation comparing the actual and modeled gas consumption under 40 CFR 98.94(c)(2)(iii).	98.96miv						X				
I - Electronics Manufacturing	Inventory of all abatement systems through which F-GHGs or N2O flow at your facility.	98.96p			PC							
I - Electronics Manufacturing	Description of all abatement systems through which F-GHGs or N2O flow at your facility.	98.96p			PX							
I - Electronics Manufacturing	Number of abatement devices of each manufacturer through which F-GHGs or N2O flow at your facility.	98.96p			PC							
I - Electronics Manufacturing	Model number of abatement device through which F-GHGs or N2O flow at your facility.	98.96p			PX							
I - Electronics Manufacturing	Destruction or removal efficiencies, if any, claimed by manufacturers of abatement devices through which F-GHGs or N2O flow at your facility.	98.96p			PX							
I - Electronics Manufacturing	Destruction and removal efficiency measurement records for abatement system through which F-GHGs or N2O flow at your facility over its in-use life.	98.96p				PX						
I - Electronics Manufacturing	Description of the tools associated with each abatement system.	98.96p			PC							
I - Electronics Manufacturing	Model numbers of the tools associated with each abatement system.	98.96p			PC							
I - Electronics Manufacturing	The tool process sub-type or type associated with each abatement system.	98.96p			PC							
I - Electronics Manufacturing	Certification that the abatement system is installed, maintained, and operated according to manufacturer specifications.	98.96q1				PX						

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			Category									
Subpart	**Data Element**	**Reporting Section**	**Facility and Unit Identifier Information**	**Emissions**	**Unit/Process Static Characteristics That are Not Inputs to Emission Equations**	**Unit/Process Operating Characteristics That are Not Inputs to Emission Equations**	**Calculation Methodology & Method. Tier**	**Test & Calibration Methods**	**Production/ Throughput Data That are Not Inputs to Emission Equations**	**Raw Materials Consumed That are Not Inputs to Emission Equations**	**Data Elements Reported for Periods of Missing Data that are Not Inputs to Emission Equations**	**Process Specific & Vendor Data Submitted in BAMM Extension Requests**
Final Confidentiality Determinations			Emission Data (made available to the public)	Emission Data (made available to the public)	Both	Both	Emission Data (made available to the public)	Not CBI	CBI	CBI	Emission Data (made available to the public)	CBI
I - Electronics Manufacturing	Certification that the abatement systems for which controlled emissions are being reported are specifically designed for F-GHG and N2O abatement, including abatement system supplier documentation.	98.96q4			PX							
I - Electronics Manufacturing	A description of the abatement system class for which you are reporting controlled emissions.	98.96q5i			PX							
I - Electronics Manufacturing	The F-GHG and N2O in the effluent stream to the abatement system in the class for which you are reporting controlled emissions.	98.96q5i				PX						
I - Electronics Manufacturing	The manufacturer of the abatement system in the class for which you are reporting controlled emissions.	98.96q5i			PX							
I - Electronics Manufacturing	The model number of the abatement system in the class for which you are reporting controlled emissions.	98.96q5i			PX							
I - Electronics Manufacturing	The total number of abatement systems in that abatement system class for the reporting year.	98.96q5ii				PC						
I - Electronics Manufacturing	The total number of abatement systems for which destruction or removal efficiency was measured in that abatement system class for the reporting year.	98.96q5iii				PC						
I - Electronics Manufacturing	A description of the calculation used to determine the class average.	98.96q5iv					E					
I - Electronics Manufacturing	A description of method of randomly selecting class members for testing.	98.96q5v					E					
I - Electronics Manufacturing	Where missing data procedures were used to estimate inputs into the heat transfer fluid mass balance equation under 40 CFR 98.95(b), the number of times missing data procedures were followed in the reporting year.	98.96s									E	
I - Electronics Manufacturing	Where missing data procedures were used to estimate inputs into the heat transfer fluid mass balance equation under 40 CFR 98.95(b), the method used to estimate the missing data.	98.96s									E	
I - Electronics Manufacturing	A brief description of each "best available monitoring method" used.	98.96t					E					
I - Electronics Manufacturing	Parameter measured or estimated using the "best available monitoring method."	98.96t					E					
I - Electronics Manufacturing	Time period during which the "best available monitoring method" was used.	98.96t					E					
I - Electronics Manufacturing	For each fluorinated heat transfer fluid used, whether the emission estimate includes emissions from all applications or from only the applications specified in the definition of fluorinated heat transfer fluids in 40 CFR 98.98.	98.96u			PX							
I - Electronics Manufacturing	For reporting year 2012 only, the date on which you began monitoring emissions of fluorinated heat transfer fluids whose vapor pressure falls below 1 mm of Hg absolute at 25 degrees C.	98.96v			PX							
W - Petroleum and Natural Gas Systems	For extension requests for the use of BAMM beyond 2011 for sources listed in 40 CFR 98.234(f)(2), (3), (4), and (5)(iv): Initial notice of intent to submit an extension request for the use of BAMM beyond December 31, 2011.	98.234f8i				PX						
W - Petroleum and Natural Gas Systems	For extension requests for the use of BAMM beyond 2011 for sources listed in 40 CFR 98.234(f)(2), (3), (4), and (5)(iv): List of the specific source categories for which the owner or operator is seeking use of best available monitoring methods.	98.234f8iiA	E									
W - Petroleum and Natural Gas Systems	For extension requests for the use of BAMM beyond 2011 for sources listed in 40 CFR 98.234(f)(2), (3), (4), and (5)(iv): List of parameters for which the owner or operator is seeking use of best available monitoring methods.	98.234f8iiA					E					
W - Petroleum and Natural Gas Systems	For extension requests for the use of BAMM beyond 2011 for sources listed in 40 CFR 98.234(f)(2), (3), (4), and (5)(iv): Description of the unique or unusual circumstances, such as data collection methodologies that do not meet safety regulations or specific laws or regulations that conflict for each source for which an owner or operator is requesting use of BAMM.	98.234f8iiB				PX						
W - Petroleum and Natural Gas Systems	For extension requests for the use of BAMM beyond 2011 for sources listed in 40 CFR 98.234(f)(2), (3), (4), and (5)(iv): Description of the unique or unusual circumstances, such as data collection methodologies that are technically infeasible for which an owner or operator is requesting use of BAMM.	98.234f8iiB				PX						
W - Petroleum and Natural Gas Systems	For extension requests for the use of BAMM beyond 2011 for sources listed in 40 CFR 98.234(f)(2), (3), (4), and (5)(iv): Detailed explanation and supporting documentation of how the owner or operator will receive the services or equipment to comply with all of these subpart W reporting requirements.	98.234f8iiC				PX						
W - Petroleum and Natural Gas Systems	For extension requests for the use of BAMM beyond 2011 for sources listed in 40 CFR 98.234(f)(2), (3), (4), and (5)(iv): Detailed explanation and supporting documentation of when the owner or operator will receive the services or equipment to comply with all of these subpart W reporting requirements.	98.234f8iiC				PC						
W - Petroleum and Natural Gas Systems	Annual emissions in metric tons of CO2e for each GHG from onshore petroleum and natural gas production.	98.236a1		E								

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			Category									
Subpart	**Data Element**	**Reporting Section**	**Facility and Unit Identifier Information**	**Emissions**	**Unit/Process Static Characteristics That are Not Inputs to Emission Equations**	**Unit/Process Operating Characteristics That are Not Inputs to Emission Equations**	**Calculation Methodology & Method. Tier**	**Test & Calibration Methods**	**Production/ Throughput Data That are Not Inputs to Emission Equations**	**Raw Materials Consumed That are Not Inputs to Emission Equations**	**Data Elements Reported for Periods of Missing Data that are Not Inputs to Emission Equations**	**Process Specific & Vendor Data Submitted in BAMM Extension Requests**
Final Confidentiality Determinations			Em ssion Data (made ava ab e to the pub c)	Em ssion Data (made ava ab e to the pub c)	Both	Both	Em ssion Data (made ava ab e to the pub c)	Not CBI	CBI	CBI	Em ssion Data (made ava ab e to the pub c)	CBI
W - Petroleum and Natural Gas Systems	Annual emissions in metric tons of CO2e for each GHG from offshore petroleum and natural gas production.	98.236a2		E								
W - Petroleum and Natural Gas Systems	Annual emissions in metric tons of CO2e for each GHG from onshore natural gas processing.	98.236a3		E								
W - Petroleum and Natural Gas Systems	Annual emissions in metric tons of CO2e for each GHG from onshore natural gas transmission compression.	98.236a4		E								
W - Petroleum and Natural Gas Systems	Annual emissions in metric tons of CO2e for each GHG from underground natural gas storage.	98.236a5		E								
W - Petroleum and Natural Gas Systems	Annual emissions in metric tons of CO2e for each GHG from LNG storage.	98.236a6		E								
W - Petroleum and Natural Gas Systems	Annual emissions in metric tons of CO2e for each GHG from LNG import and export.	98.236a7		E								
W - Petroleum and Natural Gas Systems	Annual emissions in metric tons of CO2e for each GHG from natural gas distribution.	98.236a8		E								
W - Petroleum and Natural Gas Systems	For offshore petroleum and natural gas production, report emissions of CO2 as applicable to the source type (in metric tons CO2e per year at standard conditions) individually for all the emissions source types listed in the most recent BOEMRE study.	98.236b		E								
W - Petroleum and Natural Gas Systems	For offshore petroleum and natural gas production, report emissions of CH4 as applicable to the source type (in metric tons CO2e per year at standard conditions) individually for all the emissions source types listed in the most recent BOEMRE study.	98.236b		E								
W - Petroleum and Natural Gas Systems	For offshore petroleum and natural gas production, report emissions of N2O as applicable to the source type (in metric tons CO2e per year at standard conditions) individually for all the emissions source types listed in the most recent BOEMRE study.	98.236b		E								
W - Petroleum and Natural Gas Systems	For high bleed pneumatic devices, report annual CO2 emissions at the facility level (metric tons CO2e).	98.236c1iv		E								
W - Petroleum and Natural Gas Systems	For high bleed pneumatic devices, report annual CH4 emissions at the facility level (metric tons CO2e).	98.236c1iv		E								
W - Petroleum and Natural Gas Systems	For intermittent bleed pneumatic devices, report annual CO2 emissions at the facility level (metric tons CO2e).	98.236c1iv		E								
W - Petroleum and Natural Gas Systems	For intermittent bleed pneumatic devices, report annual CH4 emissions at the facility level (metric tons CO2e).	98.236c1iv		E								
W - Petroleum and Natural Gas Systems	For low bleed pneumatic devices, report annual CO2 emissions at the facility level (metric tons CO2e).	98.236c1iv		E								
W - Petroleum and Natural Gas Systems	For low bleed pneumatic devices, report annual CH4 emissions at the facility level (metric tons CO2e).	98.236c1iv		E								
W - Petroleum and Natural Gas Systems	For all natural gas driven pneumatic pumps combined, report annual CO2 emissions at the facility level (metric tons CO2e).	98.236c2ii		E								
W - Petroleum and Natural Gas Systems	For all natural gas driven pneumatic pumps combined, report annual CH4 emissions at the facility level (metric tons CO2e).	98.236c2ii		E								
W - Petroleum and Natural Gas Systems	For Calculation Methodology 1 of §98.233(d), annual average fraction of CO2 content in the vent from each acid gas removal unit (refer to §98.233(d)(6)).	98.236c3ii		E								
W - Petroleum and Natural Gas Systems	Annual CO2 emissions for each acid gas removal unit (metric tons CO2e).	98.236c3v		E								
W - Petroleum and Natural Gas Systems	For onshore natural gas processing industry segment only, a unique name or ID number for each acid gas removal unit.	98.236c3vi	E									
W - Petroleum and Natural Gas Systems	Indication of which calculation methodology was used for each acid gas removal unit.	98.236c3vii					E					

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E = assigned in this final rule to a category with a categorical determination of "emission data"
C = assigned in this final rule to a category with a categorical determination of "not emission data and CBI"
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			Category									
Subpart	**Data Element**	**Reporting Section**	**Facility and Unit Identifier Information**	**Emissions**	**Unit/Process Static Characteristics That are Not Inputs to Emission Equations**	**Unit/Process Operating Characteristics That are Not Inputs to Emission Equations**	**Calculation Methodology & Method. Tier**	**Test & Calibration Methods**	**Production/ Throughput Data That are Not Inputs to Emission Equations**	**Raw Materials Consumed That are Not Inputs to Emission Equations**	**Data Elements Reported for Periods of Missing Data that are Not Inputs to Emission Equations**	**Process Specific & Vendor Data Submitted in BAMM Extension Requests**
Final Confidentiality Determinations			Emission Data (made available to the public)	Emission Data (made available to the public)	Both	Both	Emission Data (made available to the public)	Not CBI	CBI	CBI	Emission Data (made available to the public)	CBI
W - Petroleum and Natural Gas Systems	For each glycol dehydrator with throughput greater than or equal to 0.4 MMscfd: What vent gas controls are used (refer to §98.233(e)(3) and (e)(4)).	98.236c4iI					E					
W - Petroleum and Natural Gas Systems	For each glycol dehydrator with throughput greater than or equal to 0.4 MMscfd: Annual CO2 emissions that resulted from venting gas directly to the atmosphere (metric tons CO2e).	98.236c4iJ		E								
W - Petroleum and Natural Gas Systems	For each glycol dehydrator with throughput greater than or equal to 0.4 MMscfd: Annual CH4 emissions that resulted from venting gas directly to the atmosphere (metric tons CO2e).	98.236c4iJ		E								
W - Petroleum and Natural Gas Systems	For each glycol dehydrator with throughput greater than or equal to 0.4 MMscfd: Annual CO2 emissions that resulted from flaring process gas from the dehydrator (metric tons CO2e).	98.236c4iK		E								
W - Petroleum and Natural Gas Systems	For each glycol dehydrator with throughput greater than or equal to 0.4 MMscfd: Annual CH4 emissions that resulted from flaring process gas from the dehydrator (metric tons CO2e).	98.236c4iK		E								
W - Petroleum and Natural Gas Systems	For each glycol dehydrator with throughput greater than or equal to 0.4 MMscfd: Annual N2O emissions that resulted from flaring process gas from the dehydrator (metric tons CO2e).	98.236c4iK		E								
W - Petroleum and Natural Gas Systems	For each glycol dehydrator with throughput greater than or equal to 0.4 MMscfd for the onshore natural gas processing industry segment only: A unique name or ID number for the glycol dehydrator.	98.236c4iL	E									
W - Petroleum and Natural Gas Systems	For all glycol dehydrators with throughput less than 0.4 MMscfd: Which vent gas controls are used (refer to §98.233(e)(3) and (e)(4)).	98.236c4iiB				PX						
W - Petroleum and Natural Gas Systems	For all glycol dehydrators with annual average daily throughput less than 0.4 MMscfd combined: annual CO2 emissions at the facility level that resulted from venting gas directly to the atmosphere (metric tons CO2e).	98.236c4iiC		E								
W - Petroleum and Natural Gas Systems	For all glycol dehydrators with annual average daily throughput less than 0.4 MMscfd combined: annual CH4 emissions at the facility level that resulted from venting gas directly to the atmosphere (metric tons CO2e).	98.236c4iiC		E								
W - Petroleum and Natural Gas Systems	For all glycol dehydrators with annual average daily throughput less than 0.4 MMscfd combined: annual CO2 emissions at the facility level that resulted from the flaring of process gas (metric tons CO2e).	98.236c4iiD		E								
W - Petroleum and Natural Gas Systems	For all glycol dehydrators with annual average daily throughput less than 0.4 MMscfd combined: annual CH4 emissions at the facility level that resulted from the flaring of process gas (metric tons CO2e).	98.236c4iiD		E								
W - Petroleum and Natural Gas Systems	For all glycol dehydrators with annual average daily throughput less than 0.4 MMscfd combined: annual N2O emissions at the facility level that resulted from the flaring of process gas (metric tons CO2e).	98.236c4iiD		E								
W - Petroleum and Natural Gas Systems	Count of absorbent desiccant dehydrators.	98.236c4iiiA			PX							
W - Petroleum and Natural Gas Systems	Annual CO2 emissions at the facility level for all absorbent desiccant dehydrators combined (metric tons CO2e).	98.236c4iiiB		E								
W - Petroleum and Natural Gas Systems	Annual CH4 emissions at the facility level for all absorbent desiccant dehydrators combined (metric tons CO2e).	98.236c4iiiB		E								
W - Petroleum and Natural Gas Systems	For well venting for liquids unloading, for Calculation Methodology 1, report the following by each tubing diameter group and pressure group combination within each sub-basin category: Count of wells vented to the atmosphere for liquids unloading.	98.236c5iA				PX						
W - Petroleum and Natural Gas Systems	For well venting for liquids unloading, for Calculation Methodology 1, report the following by each tubing diameter group and pressure group combination within each sub-basin category: Whether the selected well from the tubing diameter and pressure group combination had a plunger lift (yes/no).	98.236c5iB				PX						
W - Petroleum and Natural Gas Systems	For well venting for liquids unloading, for Calculation Methodology 1, report the following by each tubing diameter group and pressure group combination within each sub-basin category: Count of plunger lifts.	98.236c5iB				PX						
W - Petroleum and Natural Gas Systems	For well venting for liquids unloading, for Calculation Methodology 1, report the following by each tubing diameter group and pressure group combination within each sub-basin category: Cumulative number of unloadings vented to the atmosphere.	98.236c5iC				PX						
W - Petroleum and Natural Gas Systems	For well venting for liquids unloading, for Calculation Methodology 1, report the following by each tubing diameter group and pressure group combination within each sub-basin category: Internal casing diameter or internal tubing diameter in inches, where applicable.	98.236c5iE			PX							

Table 1: List of Final Data Category Assignments and CBI Determinations for Direct Emitter Subparts I, W, DD, II, RR, SS, and TT.

Key:

E = assigned in this final rule to a category with a categorical determination of "emission data"
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			Category										
Subpart	**Data Element**	**Reporting Section**	**Facility and Unit Identifier Information**	**Emissions**	**Unit/Process Static Characteristics That are Not Inputs to Emission Equations**	**Unit/Process Operating Characteristics That are Not Inputs to Emission Equations**	**Calculation Methodology & Method. Tier**	**Test & Calibration Methods**	**Production/ Throughput Data That are Not Inputs to Emission Equations**	**Raw Materials Consumed That are Not Inputs to Emission Equations**	**Data Elements Reported for Periods of Missing Data that are Not Inputs to Emission Equations**	**Process Specific & Vendor Data Submitted in BAMM Extension Requests**
Final Confidentiality Determinations			Emission Data (made available to the public)	Emission Data (made available to the public)	Both	Both	Emission Data (made available to the public)	Not CBI	CBI	CBI	Emission Data (made available to the public)	CBI
W - Petroleum and Natural Gas Systems	For well venting for liquids unloading, for Calculation Methodology 1, report the following by each tubing diameter group and pressure group combination within each sub-basin category: Well depth of each well, in feet, selected to represent emissions in that tubing size and pressure combination.	98.236c5iE			PX							
W - Petroleum and Natural Gas Systems	For well venting for liquids unloading, for Calculation Methodology 1, report the following by each tubing diameter group and pressure group combination within each sub-basin category: Casing pressure, in psia, of each well selected to represent emissions in that tubing size group and pressure group combination that does not have a plunger lift.	98.236c5iF			PX							
W - Petroleum and Natural Gas Systems	For well venting for liquids unloading, for Calculation Methodology 1, report the following by each tubing diameter group and pressure group combination within each sub-basin category: Tubing pressure, in psia, of each well selected to represent emissions in a tubing size group and pressure group combination that has a plunger lift.	98.236c5iG			PX							
W - Petroleum and Natural Gas Systems	For well venting for liquids unloading, for Calculation Methodology 1, report the following by each tubing diameter group and pressure group combination within each sub-basin category: Annual CO2 emissions (metric tons CO2e).	98.236c5iH		E								
W - Petroleum and Natural Gas Systems	For well venting for liquids unloading, for Calculation Methodology 1, report the following by each tubing diameter group and pressure group combination within each sub-basin category: Annual CH4 emissions (metric tons CO2e).	98.236c5iH		E								
W - Petroleum and Natural Gas Systems	For well venting for liquids unloading, for Calculation Methodologies 2 and 3, report the following for each sub-basin category: Count of wells vented to the atmosphere for liquids unloading.	98.236c5iiA				PX						
W - Petroleum and Natural Gas Systems	For well venting for liquids unloading, for Calculation Methodologies 2 and 3, report the following for each sub-basin category: Count of plunger lifts.	98.236c5iiB				PX						
W - Petroleum and Natural Gas Systems	For well venting for liquids unloading, for Calculation Methodologies 2 and 3, report the following for each sub-basin category: Average internal casing diameter, in inches, of each well, where applicable.	98.236c5iiD			PX							
W - Petroleum and Natural Gas Systems	For well venting for liquids unloading, for Calculation Methodologies 2 and 3, report the following by each tubing diameter group and pressure group combination within each sub-basin category: Annual CO2 emissions (metric tons CO2e).	98.236c5iiE		E								
W - Petroleum and Natural Gas Systems	For well venting for liquids unloading, for Calculation Methodologies 2 and 3, report the following by each tubing diameter group and pressure group combination within each sub-basin category: Annual CH4 emissions (metric tons CO2e).	98.236c5iiE		E								
W - Petroleum and Natural Gas Systems	For gas well completions with hydraulic fracturing, report the following for each sub-basin and well type (horizontal or vertical) combination: Total count of completions in calendar year.	98.236c6iA				PX						
W - Petroleum and Natural Gas Systems	For gas well workovers with hydraulic fracturing, report the following for each sub-basin and well type (horizontal or vertical) combination: Total count of workovers in calendar year that flare gas or vent gas to the atmosphere.	98.236c6iC				PX						
W - Petroleum and Natural Gas Systems	For gas well completions with hydraulic fracturing, report the following for each sub-basin and well type (horizontal or vertical) combination: Number of completions employing purposely designed equipment that separates natural gas from the backflow.	98.236c6iG				PX						
W - Petroleum and Natural Gas Systems	For gas well workovers with hydraulic fracturing, report the following for each sub-basin and well type (horizontal or vertical) combination: Number of workovers employing purposely designed equipment that separates natural gas from the backflow.	98.236c6iH				PX						
W - Petroleum and Natural Gas Systems	For gas well completions and workovers with hydraulic fracturing, report the following for each sub-basin and well type (horizontal or vertical) combination: Annual CO2 emissions that resulted from venting gas directly to the atmosphere (metric tons CO2e).	98.236c6iI		E								
W - Petroleum and Natural Gas Systems	For gas well completions and workovers with hydraulic fracturing, report the following for each sub-basin and well type (horizontal or vertical) combination: Annual CH4 emissions that resulted from venting gas directly to the atmosphere (metric tons CO2e).	98.236c6iI		E								
W - Petroleum and Natural Gas Systems	For gas well completions and workovers with hydraulic fracturing, report the following for each sub-basin and well type (horizontal or vertical) combination: Annual CO2 emissions that resulted from flares (metric tons CO2e).	98.236c6iJ		E								
W - Petroleum and Natural Gas Systems	For gas well completions and workovers with hydraulic fracturing, report the following for each sub-basin and well type (horizontal or vertical) combination: Annual CH4 emissions that resulted from flares (metric tons CO2e).	98.236c6iJ		E								
W - Petroleum and Natural Gas Systems	For gas well completions and workovers with hydraulic fracturing, report the following for each sub-basin and well type (horizontal or vertical) combination: Annual N2O emissions that resulted from flares (metric tons CO2e).	98.236c6iJ		E								
W - Petroleum and Natural Gas Systems	For gas well completions and workovers without hydraulic fracturing: Total number of days of gas venting to the atmosphere during backflow for completion.	98.236c6iiC				PX						

Table 1: List of Final Data Category Assignments and CBI Determinations for Direct Emitter Subparts I, W, DD, II, RR, SS, and TT.

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			Category									
Subpart	**Data Element**	**Reporting Section**	**Facility and Unit Identifier Information**	**Emissions**	**Unit/Process Static Characteristics That are Not Inputs to Emission Equations**	**Unit/Process Operating Characteristics That are Not Inputs to Emission Equations**	**Calculation Methodology & Method. Tier**	**Test & Calibration Methods**	**Production/ Throughput Data That are Not Inputs to Emission Equations**	**Raw Materials Consumed That are Not Inputs to Emission Equations**	**Data Elements Reported for Periods of Missing Data that are Not Inputs to Emission Equations**	**Process Specific & Vendor Data Submitted in BAMM Extension Requests**
Final Confidentiality Determinations			Emission Data (made available to the public)	Emission Data (made available to the public)	Both	Both	Emission Data (made available to the public)	Not CBI	CBI	CBI	Emission Data (made available to the public)	CBI
W - Petroleum and Natural Gas Systems	For gas well completions and workovers without hydraulic fracturing: Annual CO2 emissions that resulted from venting gas directly to the atmosphere (metric tons CO2e).	98.236c6iiD		E								
W - Petroleum and Natural Gas Systems	For gas well completions and workovers without hydraulic fracturing: Annual CH4 emissions that resulted from venting gas directly to the atmosphere (metric tons CO2e).	98.236c6iiD		E								
W - Petroleum and Natural Gas Systems	For gas well completions and workovers without hydraulic fracturing: Annual CO2 emissions that resulted from flares (metric tons CO2e).	98.236c6iiE		E								
W - Petroleum and Natural Gas Systems	For gas well completions and workovers without hydraulic fracturing: Annual CH4 emissions that resulted from flares (metric tons CO2e).	98.236c6iiE		E								
W - Petroleum and Natural Gas Systems	For gas well completions and workovers without hydraulic fracturing: Annual N2O emissions that resulted from flares (metric tons CO2e).	98.236c6iiE		E								
W - Petroleum and Natural Gas Systems	For blowdown vent stack emission source, for each unique physical volume that is blown down more than once during the calendar year: Total number of blowdowns for each unique physical volume in the calendar year (when using Eq. W-14B).	98.236c7iA				PX						
W - Petroleum and Natural Gas Systems	For blowdown vent stack emission source, for each unique physical volume that is blown down more than once during the calendar year: Annual CO2 emissions, for each unique physical blowdown volume (metric tons CO2e).	98.236c7iB		E								
W - Petroleum and Natural Gas Systems	For blowdown vent stack emission source, for each unique physical volume that is blown down more than once during the calendar year: Annual CH4 emissions, for each unique physical blowdown volume (metric tons CO2e).	98.236c7iB		E								
W - Petroleum and Natural Gas Systems	For blowdown vent stack emission source, for each unique physical volume that is blown down more than once during the calendar year: A unique name or ID number for the unique physical volume.	98.236c7iC	E									
W - Petroleum and Natural Gas Systems	For blowdown vent stack emission source, for all unique volumes that are blown down once during the calendar year: Total number of blowdowns for all unique physical volumes in the calendar year.	98.236c7iiA				PX						
W - Petroleum and Natural Gas Systems	For blowdown vent stack emission source, for all unique volumes that are blown down once during the calendar year: Annual CO2 emissions, from all unique physical volumes as an aggregate per facility (metric tons CO2e).	98.236c7iiB		E								
W - Petroleum and Natural Gas Systems	For blowdown vent stack emission source, for all unique volumes that are blown down once during the calendar year: Annual CH4 emissions, from all unique volumes as an aggregate per facility (metric tons CO2e).	98.236c7iiB		E								
W - Petroleum and Natural Gas Systems	For wellhead gas-liquid separator with oil throughput greater than or equal to 10 barrels per day, using Calculation Methodology 1 and 2 of 40 CFR 98.233(j), report by sub-basin category: Number of wellhead separators sending oil to atmospheric tanks.	98.236c8iA			PX							
W - Petroleum and Natural Gas Systems	For wellhead gas-liquid separator with oil throughput greater than or equal to 10 barrels per day, using Calculation Methodology 1 and 2 of 40 CFR 98.233(j), report by sub-basin category: Estimated average separator temperature (degrees Fahrenheit) (when using methodology 1).	98.236c8iB				PX						
W - Petroleum and Natural Gas Systems	For wellhead gas-liquid separator with oil throughput greater than or equal to 10 barrels per day, using Calculation Methodology 1 and 2 of 40 CFR 98.233(j), report by sub-basin category: Estimated average separator temperature (degrees Fahrenheit) (when using methodology 2).	98.236c8iB				PX						
W - Petroleum and Natural Gas Systems	For wellhead gas-liquid separator with oil throughput greater than or equal to 10 barrels per day, using Calculation Methodology 1 and 2 of 40 CFR 98.233(j), report by sub-basin category: Estimated average pressure (psig) (when using methodology 1).	98.236c8iB				PX						
W - Petroleum and Natural Gas Systems	For wellhead gas-liquid separator with oil throughput greater than or equal to 10 barrels per day, using Calculation Methodology 1 and 2 of 40 CFR 98.233(j), report by sub-basin category: Estimated average pressure (psig) (when using methodology 2).	98.236c8iB				PX						
W - Petroleum and Natural Gas Systems	For wellhead gas-liquid separator with oil throughput greater than or equal to 10 barrels per day, using Calculation Methodology 1 and 2 of 40 CFR 98.233(j), report by sub-basin category: Estimated average sales oil stabilized API gravity (degrees) (when using methodology 1).	98.236c8iC			PX							
W - Petroleum and Natural Gas Systems	For wellhead gas-liquid separator with oil throughput greater than or equal to 10 barrels per day, using Calculation Methodology 1 and 2 of 40 CFR 98.233(j), report by sub-basin category: Estimated average sales oil stabilized API gravity (degrees) (when using methodology 2).	98.236c8iC			PX							
W - Petroleum and Natural Gas Systems	For wellhead gas-liquid separator with oil throughput greater than or equal to 10 barrels per day, using Calculation Methodology 1 and 2 of 40 CFR 98.233(j), report by sub-basin category: Count of hydrocarbon tanks at well pads.	98.236c8iD			PX							

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			Category									
Subpart	**Data Element**	**Reporting Section**	**Facility and Unit Identifier Information**	**Emissions**	**Unit/Process Static Characteristics That are Not Inputs to Emission Equations**	**Unit/Process Operating Characteristics That are Not Inputs to Emission Equations**	**Calculation Methodology & Method. Tier**	**Test & Calibration Methods**	**Production/ Throughput Data That are Not Inputs to Emission Equations**	**Raw Materials Consumed That are Not Inputs to Emission Equations**	**Data Elements Reported for Periods of Missing Data that are Not Inputs to Emission Equations**	**Process Specific & Vendor Data Submitted in BAMM Extension Requests**
Final Confidentiality Determinations			Em ssion Data (made ava ab e to the pub c)	Em ssion Data (made ava ab e to the pub c)	Both	Both	Em ssion Data (made ava ab e to the pub c)	Not CBI	CBI	CBI	Em ssion Data (made ava ab e to the pub c)	CBI
W - Petroleum and Natural Gas Systems	For wellhead gas-liquid separator with oil throughput greater than or equal to 10 barrels per day, using Calculation Methodology 1 and 2 of 40 CFR 98.233(j), report by sub-basin category: Best estimate of count of stock tanks not at well pads receiving your oil.	98.236c8iE			PX							
W - Petroleum and Natural Gas Systems	For wellhead gas-liquid separator with oil throughput greater than or equal to 10 barrels per day, using Calculation Methodology 1 and 2 of 40 CFR 98.233(j), report by sub-basin category: Count of tanks with emissions control measures, either vapor recovery system or flaring, for tanks at well pads.	98.236c8iG			PX							
W - Petroleum and Natural Gas Systems	For wellhead gas-liquid separator with oil throughput greater than or equal to 10 barrels per day, using Calculation Methodology 1 and 2 of 40 CFR 98.233(j), report by sub-basin category: Best estimate of count of stock tanks assumed to have emissions control measures not at well pads, receiving your oil.	98.236c8iH			PX							
W - Petroleum and Natural Gas Systems	For wellhead gas-liquid separator with oil throughput greater than or equal to 10 barrels per day, using Calculation Methodology 1 and 2 of 40 CFR 98.233(j), report by sub-basin category: Range of concentrations of CH4 in flash gas.	98.236c8iI		E								
W - Petroleum and Natural Gas Systems	For wellhead gas-liquid separator with oil throughput greater than or equal to 10 barrels per day, using Calculation Methodology 1 and 2 of 40 CFR 98.233(j), report by sub-basin category: Range of concentrations of CO2 in flash gas.	98.236c8iI		E								
W - Petroleum and Natural Gas Systems	For wellhead gas-liquid separator with oil throughput greater than or equal to 10 barrels per day, using Calculation Methodology 1 of 40 CFR 98.233(j), report by sub-basin category: Annual CO2 emissions that resulted from venting gas to the atmosphere (metric tons CO2e), for all wellhead gas-liquid separator or storage tanks using Calculation Methodology 1 of §98.233(j).	98.236c8iJ		E								
W - Petroleum and Natural Gas Systems	For wellhead gas-liquid separator with oil throughput greater than or equal to 10 barrels per day, using Calculation Methodology 1 of 40 CFR 98.233(j), report by sub-basin category: Annual CH4 emissions that resulted from venting gas to the atmosphere (metric tons CO2e), for all wellhead gas-liquid separator or storage tanks using Calculation Methodology 1 of §98.233(j).	98.236c8iJ		E								
W - Petroleum and Natural Gas Systems	For wellhead gas-liquid separator with oil throughput greater than or equal to 10 barrels per day, using Calculation Methodology 2 of 40 CFR 98.233(j), report by sub-basin category: Annual CO2 emissions that resulted from venting gas to the atmosphere (metric tons CO2e), for all wellhead gas-liquid separators or storage tanks using Calculation Methodology 2 of §98.233(j).	98.236c8iJ		E								
W - Petroleum and Natural Gas Systems	For wellhead gas-liquid separator with oil throughput greater than or equal to 10 barrels per day, using Calculation Methodology 2 of 40 CFR 98.233(j), report by sub-basin category: Annual CH4 emissions that resulted from venting gas to the atmosphere (metric tons CO2e), for all wellhead gas-liquid separators or storage tanks using Calculation Methodology 2 of §98.233(j).	98.236c8iJ		E								
W - Petroleum and Natural Gas Systems	For wellhead gas-liquid separator with oil throughput greater than or equal to 10 barrels per day, using Calculation Methodology 1 and 2 of 40 CFR 98.233(j), report by sub-basin category: Annual CO2 emissions that resulted from flaring gas (metric tons CO2e), for all wellhead gas-liquid separators or storage tanks using Calculation Methodology 1 and for all wellhead gas-liquid separators or storage tanks using Calculation Methodology 2 of §98.233(j).	98.236c8iL		E								
W - Petroleum and Natural Gas Systems	For wellhead gas-liquid separator with oil throughput greater than or equal to 10 barrels per day, using Calculation Methodology 1 and 2 of 40 CFR 98.233(j), report by sub-basin category: Annual CH4 emissions that resulted from flaring gas (metric tons CO2e), for all wellhead gas-liquid separators or storage tanks using Calculation Methodology 1 and for all wellhead gas-liquid separators or storage tanks using Calculation Methodology 2 of §98.233(j).	98.236c8iL		E								
W - Petroleum and Natural Gas Systems	For wellhead gas-liquid separator with oil throughput greater than or equal to 10 barrels per day, using Calculation Methodology 1 and 2 of 40 CFR 98.233(j), report by sub-basin category: Annual N2O emissions that resulted from flaring gas (metric tons CO2e), for all wellhead gas-liquid separators or storage tanks using Calculation Methodology 1 and for all wellhead gas-liquid separators or storage tanks using Calculation Methodology 2 of §98.233(j).	98.236c8iL		E								
W - Petroleum and Natural Gas Systems	For wells with oil production greater than or equal to 10 barrels per day, using Calculation Methodology 3 and 4 of 40 CFR 98.233(j), report the following by sub-basin category: Total number of wells sending oil directly to tanks.	98.236c8iiB			PX							
W - Petroleum and Natural Gas Systems	For wells with oil production greater than or equal to 10 barrels per day, using Calculation Methodology 3 and 4 of 40 CFR 98.233(j), report the following by sub-basin category: Total number of wells sending oil to separators off the well pads.	98.236c8iiC			PX							
W - Petroleum and Natural Gas Systems	For wells with oil production greater than or equal to 10 barrels per day, using Calculation Methodology 3 and 4 of 40 CFR 98.233(j), report the following by sub-basin category: Sales oil API gravity range (degrees) for wells in 40 CFR 98.236(c)(8)(ii)(B) and (C).	98.236c8iiD			PX							

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			Category									
Subpart	**Data Element**	**Reporting Section**	**Facility and Unit Identifier Information**	**Emissions**	**Unit/Process Static Characteristics That are Not Inputs to Emission Equations**	**Unit/Process Operating Characteristics That are Not Inputs to Emission Equations**	**Calculation Methodology & Method. Tier**	**Test & Calibration Methods**	**Production/ Throughput Data That are Not Inputs to Emission Equations**	**Raw Materials Consumed That are Not Inputs to Emission Equations**	**Data Elements Reported for Periods of Missing Data that are Not Inputs to Emission Equations**	**Process Specific & Vendor Data Submitted in BAMM Extension Requests**
Final Confidentiality Determinations			Emission Data (made available to the public)	Emission Data (made available to the public)	Both	Both	Emission Data (made available to the public)	Not CBI	CBI	CBI	Emission Data (made available to the public)	CBI
W - Petroleum and Natural Gas Systems	For wells with oil production greater than or equal to 10 barrels per day, using Calculation Methodology 3 and 4 of 40 CFR 98.233(j), report the following by sub-basin category: Count of hydrocarbon tanks on well pads.	98.236c8iiE			PX							
W - Petroleum and Natural Gas Systems	For wells with oil production greater than or equal to 10 barrels per day, using Calculation Methodology 3 and 4 of 40 CFR 98.233(j), report the following by sub-basin category: Count of hydrocarbon tanks, both on and off well pads assumed to have emissions control measures: either vapor recovery system or flaring of tank vapors.	98.236c8iiF			PX							
W - Petroleum and Natural Gas Systems	For wells with oil production greater than or equal to 10 barrels per day, using Calculation Methodology 3 and 4 of 40 CFR 98.233(j), report the following by sub-basin category: Annual CO2 emissions that resulted from venting gas to the atmosphere (metric tons CO2e), for Calculation Methodology 3 or 4 of §98.233(j).	98.236c8iiG		E								
W - Petroleum and Natural Gas Systems	For wells with oil production greater than or equal to 10 barrels per day, using Calculation Methodology 3 and 4 of 40 CFR 98.233(j), report the following by sub-basin category: Annual CH4 emissions that resulted from venting gas to the atmosphere (metric tons CO2e), for Calculation Methodology 3 or 4 of §98.233(j).	98.236c8iiG		E								
W - Petroleum and Natural Gas Systems	For wells with oil production greater than or equal to 10 barrels per day, using Calculation Methodology 3 and 4 of 40 CFR 98.233(j), report the following by sub-basin category: Annual CO2 emissions that resulted from flaring gas (metric tons CO2e), for Calculation Methodology 3 and 4 of §98.233(j).	98.236c8iiI		E								
W - Petroleum and Natural Gas Systems	For wells with oil production greater than or equal to 10 barrels per day, using Calculation Methodology 3 and 4 of 40 CFR 98.233(j), report the following by sub-basin category: Annual CH4 emissions that resulted from flaring gas (metric tons CO2e), for Calculation Methodology 3 and 4 of §98.233(j).	98.236c8iiI		E								
W - Petroleum and Natural Gas Systems	For wells with oil production greater than or equal to 10 barrels per day, using Calculation Methodology 3 and 4 of 40 CFR 98.233(j), report the following by sub-basin category: Annual N2O emissions that resulted from flaring gas (metric tons CO2e), for Calculation Methodology 3 and 4 of §98.233(j).	98.236c8iiI		E								
W - Petroleum and Natural Gas Systems	For wellhead gas-liquid separators and wells with throughput less than 10 barrels per day, using Calculation Methodology 5 of 40 CFR 98.233(j) Equation W–15 of 40 CFR 98.233: Total volume of oil production in barrels per year.	98.236c8iiiC							C			
W - Petroleum and Natural Gas Systems	For wellhead gas-liquid separators and wells with throughput less than 10 barrels per day, using Calculation Methodology 5 of 40 CFR 98.233(j) Equation W-15 of 40 CFR 98.233: Best estimate of fraction of production sent to tanks with assumed control measures: either vapor recovery system or flaring of tank vapors.	98.236c8iiiD				PX						
W - Petroleum and Natural Gas Systems	For wellhead gas-liquid separators and wells with throughput less than 10 barrels per day, using Calculation Methodology 5 of 40 CFR 98.233(j) Equation W-15 of 40 CFR 98.233: Count of hydrocarbon tanks on well pads.	98.236c8iiiE			PX							
W - Petroleum and Natural Gas Systems	For wellhead gas-liquid separators and wells with throughput less than 10 barrels per day, using Calculation Methodology 5 of 40 CFR 98.233(j) Equation W-15 of 40 CFR 98.233: Annual CO2 emissions that resulted from venting gas to the atmosphere (metric tons CO2e), at the sub-basin level for Calculation Methodology 5 of §98.233(j).	98.236c8iiiF		E								
W - Petroleum and Natural Gas Systems	For wellhead gas-liquid separators and wells with throughput less than 10 barrels per day, using Calculation Methodology 5 of 40 CFR 98.233(j) Equation W-15 of 40 CFR 98.233: Annual CH4 emissions that resulted from venting gas to the atmosphere (metric tons CO2e), at the sub-basin level for Calculation Methodology 5 of §98.233(j).	98.236c8iiiF		E								
W - Petroleum and Natural Gas Systems	For wellhead gas-liquid separators and wells with throughput less than 10 barrels per day, using Calculation Methodology 5 of 40 CFR 98.233(j) Equation W-15 of 40 CFR 98.233: Annual CO2 emissions that resulted from flaring gas (metric tons CO2e), at the sub-basin level for Calculation Methodology 5 of §98.233(j).	98.236c8iiiH		E								
W - Petroleum and Natural Gas Systems	For wellhead gas-liquid separators and wells with throughput less than 10 barrels per day, using Calculation Methodology 5 of 40 CFR 98.233(j) Equation W-15 of 40 CFR 98.233: Annual CH4 emissions that resulted from flaring gas (metric tons CO2e), at the sub-basin level for Calculation Methodology 5 of §98.233(j).	98.236c8iiiH		E								
W - Petroleum and Natural Gas Systems	For wellhead gas-liquid separators and wells with throughput less than 10 barrels per day, using Calculation Methodology 5 of 40 CFR 98.233(j) Equation W-15 of 40 CFR 98.233: Annual N2O emissions that resulted from flaring gas (metric tons CO2e), at the sub-basin level for Calculation Methodology 5 of §98.233(j).	98.236c8iiiH		E								
W - Petroleum and Natural Gas Systems	If wellhead separator dump valve is functioning improperly during the calendar year: Count of wellhead separators that dump valve factor is applied.	98.236c8ivA				PX						
W - Petroleum and Natural Gas Systems	If wellhead separator dump valve is functioning improperly during the calendar year: Annual CO2 emissions that resulted from venting gas to the atmosphere (metric tons CO2e) at the sub-basin level for improperly functioning dump valves.	98.236c8ivB		E								

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Key:

E = assigned in this final rule to a category with a categorical determination of "emission data"
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			Category									
Subpart	**Data Element**	**Reporting Section**	**Facility and Unit Identifier Information**	**Emissions**	**Unit/Process Static Characteristics That are Not Inputs to Emission Equations**	**Unit/Process Operating Characteristics That are Not Inputs to Emission Equations**	**Calculation Methodology & Method. Tier**	**Test & Calibration Methods**	**Production/ Throughput Data That are Not Inputs to Emission Equations**	**Raw Materials Consumed That are Not Inputs to Emission Equations**	**Data Elements Reported for Periods of Missing Data that are Not Inputs to Emission Equations**	**Process Specific & Vendor Data Submitted in BAMM Extension Requests**
Final Confidentiality Determinations			Emission Data (made available to the public)	Emission Data (made available to the public)	Both	Both	Emission Data (made available to the public)	Not CBI	CBI	CBI	Emission Data (made available to the public)	CBI
W - Petroleum and Natural Gas Systems	If wellhead separator dump valve is functioning improperly during the calendar year: Annual CH4 emissions that resulted from venting gas to the atmosphere (metric tons CO2e) at the sub-basin level for improperly functioning dump valves.	98.236c8ivB		E								
W - Petroleum and Natural Gas Systems	For transmission tank emissions identified using optical gas imaging instrument per §98.234(a) (refer to §98.233(k)), or acoustic leak detection of scrubber dump valves, report the following: For each vent stack, annual CO2 emissions that resulted from venting gas directly to the atmosphere (metric tons CO2e).	98.236c9i		E								
W - Petroleum and Natural Gas Systems	For transmission tank emissions identified using optical gas imaging instrument per §98.234(a) (refer to §98.233(k)), or acoustic leak detection of scrubber dump valves, report the following: For each vent stack, annual CH4 emissions that resulted from venting gas directly to the atmosphere (metric tons CO2e).	98.236c9i		E								
W - Petroleum and Natural Gas Systems	For transmission tank emissions identified using optical gas imaging instrument per §98.234(a) (refer to §98.233(k)), or acoustic leak detection of scrubber dump valves, report the following: Annual CO2 emissions for each transmission storage tank that resulted from flaring process gas from the transmission storage tank (metric tons CO2e).	98.236c9ii		E								
W - Petroleum and Natural Gas Systems	For transmission tank emissions identified using optical gas imaging instrument per §98.234(a) (refer to §98.233(k)), or acoustic leak detection of scrubber dump valves, report the following: Annual CH4 emissions for each transmission storage tank that resulted from flaring process gas from the transmission storage tank (metric tons CO2e).	98.236c9ii		E								
W - Petroleum and Natural Gas Systems	For transmission tank emissions identified using optical gas imaging instrument per §98.234(a) (refer to §98.233(k)), or acoustic leak detection of scrubber dump valves, report the following: Annual N2O emissions for each transmission storage tank that resulted from flaring process gas from the transmission storage tank (metric tons CO2e).	98.236c9ii		E								
W - Petroleum and Natural Gas Systems	For transmission tank emissions identified using optical gas imaging instrument per §98.234(a) (refer to §98.233(k)), or acoustic leak detection of scrubber dump valves, report the following: A unique name or ID number for the vent stack monitored according to 40 CFR 98.233(k).	98.236c9iii	E									
W - Petroleum and Natural Gas Systems	For well testing venting and flaring: Number of wells tested per basin in calendar year.	98.236c10i				PX						
W - Petroleum and Natural Gas Systems	For well testing venting and flaring: Average gas to oil ratio for each basin.	98.236c10ii				PX						
W - Petroleum and Natural Gas Systems	For well testing venting and flaring: Average number of days the well is tested in a basin.	98.236c10iii				PX						
W - Petroleum and Natural Gas Systems	For well testing venting: Annual CO2 emissions at the facility level (metric tons CO2e) from well testing venting.	98.236c10iv		E								
W - Petroleum and Natural Gas Systems	For well testing venting: Annual CH4 emissions at the facility level (metric tons CO2e) from well testing venting.	98.236c10iv		E								
W - Petroleum and Natural Gas Systems	For well testing flaring: Annual CO2 emissions at the facility level (metric tons CO2e) from well testing flaring.	98.236c10v		E								
W - Petroleum and Natural Gas Systems	For well testing flaring: Annual CH4 emissions at the facility level (metric tons CO2e) from well testing flaring.	98.236c10v		E								
W - Petroleum and Natural Gas Systems	For well testing flaring: Annual N2O emissions at the facility level (metric tons CO2e) from well testing flaring.	98.236c10v		E								
W - Petroleum and Natural Gas Systems	For associated natural gas venting and flaring for each basin: Number of wells venting or flaring associated natural gas in a calendar year.	98.236c11i				PX						
W - Petroleum and Natural Gas Systems	For associated natural gas venting and flaring for each basin: Average gas to oil ratio.	98.236c11ii				PX						
W - Petroleum and Natural Gas Systems	For associated natural gas venting for each basin: Annual CO2 emissions at the facility level (metric tons CO2e) at the facility level from associated natural gas venting.	98.236c11iii		E								
W - Petroleum and Natural Gas Systems	For associated natural gas venting for each basin: Annual CH4 emissions at the facility level (metric tons CO2e) at the facility level from associated natural gas venting.	98.236c11iii		E								
W - Petroleum and Natural Gas Systems	For associated natural gas flaring for each basin: Annual CO2 emissions at the facility level (metric tons CO2e) at the facility level from associated natural gas flaring.	98.236c11iv		E								

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			Category									
Subpart	Data Element	Reporting Section	Facility and Unit Identifier Information	Emissions	Unit/Process Static Characteristics That are Not Inputs to Emission Equations	Unit/Process Operating Characteristics That are Not Inputs to Emission Equations	Calculation Methodology & Method. Tier	Test & Calibration Methods	Production/ Throughput Data That are Not Inputs to Emission Equations	Raw Materials Consumed That are Not Inputs to Emission Equations	Data Elements Reported for Periods of Missing Data that are Not Inputs to Emission Equations	Process Specific & Vendor Data Submitted in BAMM Extension Requests
Final Confidentiality Determinations			Emission Data (made available to the public)	Emission Data (made available to the public)	Both	Both	Emission Data (made available to the public)	Not CBI	CBI	CBI	Emission Data (made available to the public)	CBI
W - Petroleum and Natural Gas Systems	For associated natural gas flaring for each basin: Annual CH4 emissions at the facility level (metric tons CO2e) at the facility level from associated natural gas flaring.	98.236c11iv		E								
W - Petroleum and Natural Gas Systems	For associated natural gas flaring for each basin: Annual N2O emissions at the facility level (metric tons CO2e) at the facility level from associated natural gas flaring.	98.236c11iv		E								
W - Petroleum and Natural Gas Systems	For flare stacks, for each flare: Whether flare has a continuous flow monitor.	98.236c12i						X				
W - Petroleum and Natural Gas Systems	For flare stacks, for each flare: Percent of gas sent to un-lit flare determined by engineering estimate and process knowledge based on best available data and operating records.	98.236c12iii				PX						
W - Petroleum and Natural Gas Systems	For flare stacks, for each flare: Whether flare has a continuous gas analyzer.	98.236c12iv						X				
W - Petroleum and Natural Gas Systems	For flare stacks, for each flare: Uncombusted CH4 emissions (metric tons CO2e) (refer to Equation W-19 of §98.233).	98.236c12vi		E								
W - Petroleum and Natural Gas Systems	For flare stacks, for each flare: Uncombusted CO2 emissions (metric tons CO2e) (refer to Equation W-20 of §98.233).	98.236c12vii		E								
W - Petroleum and Natural Gas Systems	For flare stacks, for each flare: Combusted CO2 emissions (metric tons CO2e) (refer to Equation W-21 of §98.233).	98.236c12viii		E								
W - Petroleum and Natural Gas Systems	For flare stacks, for each flare: N2O emissions (metric tons CO2e).	98.236c12ix		E								
W - Petroleum and Natural Gas Systems	For flare stacks, for each flare in the natural gas processing industry segment: A unique name or ID number for the flare stack.	98.236c12x	E									
W - Petroleum and Natural Gas Systems	For flare stacks, for each flare, in the case that a CEMS is used to measure CO2 emissions for the flare stack, indicate that a CEMS was used in the annual report.	98.236c12xi					E					
W - Petroleum and Natural Gas Systems	For flare stacks, for each flare, in the case that a CEMS is used to measure CO2 emissions for the flare stack, report the combusted CO2 and uncombusted CO2 as a combined number.	98.236c12xi		E								
W - Petroleum and Natural Gas Systems	For each centrifugal compressor with wet seals in operational mode, report the following for each degassing vent: Number of wet seals connected to the degassing vent.	98.236c13iA			PX							
W - Petroleum and Natural Gas Systems	For each centrifugal compressor with wet seals in operational mode, report the following for each degassing vent: Fraction of vent gas recovered for fuel or sales or flared.	98.236c13iB				PX						
W - Petroleum and Natural Gas Systems	For each centrifugal compressor with wet seals in operational mode, report the following for each degassing vent: Annual throughput in million scf (using an engineering calculation based on best available data).	98.236c13iC							C			
W - Petroleum and Natural Gas Systems	For each centrifugal compressor with wet seals in operational mode, report the following for each degassing vent: Type of meters used for making measurements.	98.236c13iD						X				
W - Petroleum and Natural Gas Systems	For each centrifugal compressor with wet seals in operational mode, report the following for each degassing vent: Seal oil degassing vent emissions for compressors measured (refer to Equation W-22 of §98.233).	98.236c13iG		E								
W - Petroleum and Natural Gas Systems	For each centrifugal compressor with wet seals in operational mode, report the following for each degassing vent: Seal oil degassing vent emissions for compressors not measured (refer to Equations W-23 and W-24 of §98.233).	98.236c13iG		E								
W - Petroleum and Natural Gas Systems	For each wet seal and each dry seal centrifugal compressor in operating mode: Blowdown vent emissions (refer to Equations W-23 and W-24 of §98.233).	98.236c13iiC		E								
W - Petroleum and Natural Gas Systems	For each wet seal and each dry seal centrifugal compressor in not operating, depressurized mode: Isolation valve leakage emissions in not operating, depressurized mode (cubic feet per hour) (refer to Equations W-23 and W-24 of §98.233).	98.236c13iiC		E								
W - Petroleum and Natural Gas Systems	For centrifugal compressors: Total annual compressor emissions from all modes of operation (refer to Equation W-24 of §98.233).	98.236c13iv		E								
W - Petroleum and Natural Gas Systems	For centrifugal compressors in onshore petroleum and natural gas production: Report emissions collectively.	98.236c13vB		E								

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			Category									
Subpart	**Data Element**	**Reporting Section**	**Facility and Unit Identifier Information**	**Emissions**	**Unit/Process Static Characteristics That are Not Inputs to Emission Equations**	**Unit/Process Operating Characteristics That are Not Inputs to Emission Equations**	**Calculation Methodology & Method. Tier**	**Test & Calibration Methods**	**Production/ Throughput Data That are Not Inputs to Emission Equations**	**Raw Materials Consumed That are Not Inputs to Emission Equations**	**Data Elements Reported for Periods of Missing Data that are Not Inputs to Emission Equations**	**Process Specific & Vendor Data Submitted in BAMM Extension Requests**
Final Confidentiality Determinations			Em ssion Data (made ava ab e to the pub c)	Em ssion Data (made ava ab e to the pub c)	Both	Both	Em ssion Data (made ava ab e to the pub c)	Not CBI	CBI	CBI	Em ssion Data (made ava ab e to the pub c)	CBI
W - Petroleum and Natural Gas Systems	For reciprocating compressors rod packing emissions with or without a vent in operating mode: Annual throughput (million scf), using an engineering calculation based on best available data.	98.236c14iA							C			
W - Petroleum and Natural Gas Systems	For reciprocating compressors rod packing emissions with or without a vent in operating mode: Rod packing emissions for compressors measured (refer to Equation W-26 of §98.233)	98.236c14iC		E								
W - Petroleum and Natural Gas Systems	For reciprocating compressors rod packing emissions with or without a vent in operating mode: Rod packing emissions for compressors not measured (refer to Equations W-27 and W-28 of §98.233)	98.236c14iC		E								
W - Petroleum and Natural Gas Systems	For reciprocating compressors blowdown vents not manifold to rod packing vents, in operating and standby pressurized mode: Blowdown vent emissions when in operating and standby pressurized modes (refer to Equations W-27 and W-28 of §98.233).	98.236c14iiC		E								
W - Petroleum and Natural Gas Systems	For reciprocating compressors in not operating, depressurized mode: Isolation valve leakage emissions in not operating, depressurized mode.	98.236c14iiiC		E								
W - Petroleum and Natural Gas Systems	For reciprocating compressors: Total annual compressor emissions from all modes of operation (refer to Equations W-27 and W-28 of §98.233).	98.236c14iv		E								
W - Petroleum and Natural Gas Systems	For reciprocating compressors in onshore petroleum and natural gas production: Report emissions collectively.	98.236c14vB		E								
W - Petroleum and Natural Gas Systems	For each component type (major equipment type for onshore production) that uses emission factors for estimating emissions (refer to §98.233(q) and (r)): For equipment leaks found in each leak survey: Total count of leaks found in each complete survey listed by date of survey and each component type for which there is a leaker emission factor in Tables W-2, W-3, W-4, W-5, W-6, and W-7 of this subpart.	98.236c15iA				PX						
W - Petroleum and Natural Gas Systems	For each component type (major equipment type for onshore production) that uses emission factors for estimating emissions (refer to §98.233(q) and (r)): For equipment leaks found in each leak survey: For onshore natural gas processing, range of concentrations of CO2 (refer to Equation W-30 of 40 CFR 98.233).	98.236c15iB				PX						
W - Petroleum and Natural Gas Systems	For each component type (major equipment type for onshore production) that uses emission factors for estimating emissions (refer to §98.233(q) and (r)): For equipment leaks found in each leak survey: For onshore natural gas processing, range of concentrations of CH4 (refer to Equation W-30 of 40 CFR 98.233).	98.236c15iB				PX						
W - Petroleum and Natural Gas Systems	For each component type (major equipment type for onshore production) that uses emission factors for estimating emissions (refer to §98.233(q) and (r)): For equipment leaks found in each leak survey: Annual CH4 emissions (refer to Equation W-30 of 40 CFR 98.233) by component type (metric tons CO2e).	98.236c15iC		E								
W - Petroleum and Natural Gas Systems	For each component type (major equipment type for onshore production) that uses emission factors for estimating emissions (refer to §98.233(q) and (r)): For equipment leaks found in each leak survey: Annual CO2 emissions (refer to Equation W-30 of 40 CFR 98.233) by component type (metric tons CO2e).	98.236c15iC		E								
W - Petroleum and Natural Gas Systems	For each component type (major equipment type for onshore production) that uses emission factors for estimating emissions (refer to §98.233(q) and (r)): For equipment leaks calculated using population counts and factors: Annual CH4 emissions (refer to Equation W-31 of 40 CFR 98.233) by component type (metric tons CO2e).	98.236c15iiC		E								
W - Petroleum and Natural Gas Systems	For each component type (major equipment type for onshore production) that uses emission factors for estimating emissions (refer to §98.233(q) and (r)): For equipment leaks calculated using population counts and factors: Annual CO2 emissions (refer to Equation W-31 of 40 CFR 98.233) by component type (metric tons CO2e).	98.236c15iiC		E								
W - Petroleum and Natural Gas Systems	For local distribution companies: Total number of above grade T-D transfer stations in the facility.	98.236c16i			PX							
W - Petroleum and Natural Gas Systems	For local distribution companies: Number of years over which all T-D transfer stations will be monitored at least once.	98.236c16ii						X				
W - Petroleum and Natural Gas Systems	For local distribution companies: Number of T-D stations monitored in calendar year.	98.236c16iii						X				
W - Petroleum and Natural Gas Systems	For local distribution companies: Total number of below grade T-D transfer stations in the facility.	98.236c16iv			PX							
W - Petroleum and Natural Gas Systems	For local distribution companies: Total number of above grade metering-regulating stations (this count will include above grade T-D transfer stations) in the facility.	98.236c16v			PX							

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			Category									
Subpart	**Data Element**	**Reporting Section**	**Facility and Unit Identifier Information**	**Emissions**	**Unit/Process Static Characteristics That are Not Inputs to Emission Equations**	**Unit/Process Operating Characteristics That are Not Inputs to Emission Equations**	**Calculation Methodology & Method. Tier**	**Test & Calibration Methods**	**Production/ Throughput Data That are Not Inputs to Emission Equations**	**Raw Materials Consumed That are Not Inputs to Emission Equations**	**Data Elements Reported for Periods of Missing Data that are Not Inputs to Emission Equations**	**Process Specific & Vendor Data Submitted in BAMM Extension Requests**
Final Confidentiality Determinations			Em ssion Data (made ava ab e to the pub c)	Em ssion Data (made ava ab e to the pub c)	Both	Both	Em ssion Data (made ava ab e to the pub c)	Not CBI	CBI	CBI	Em ssion Data (made ava ab e to the pub c)	CBI
W - Petroleum and Natural Gas Systems	For local distribution companies: Total number of below grade metering-regulating stations (this count will include below grade T-D transfer stations) in the facility.	98.236c16vi			PX							
W - Petroleum and Natural Gas Systems	[Reserved]	98.236c16vii										
W - Petroleum and Natural Gas Systems	For local distribution companies: Annual CO2 emissions from all above grade T-D transfer stations combined (metric tons CO2e).	98.236c16xvii		E								
W - Petroleum and Natural Gas Systems	For local distribution companies: Annual CH4 emissions from all above grade T-D transfer stations combined (metric tons CO2e).	98.236c16xvii		E								
W - Petroleum and Natural Gas Systems	For local distribution companies: Annual CO2 emissions from all below grade T-D transfer stations combined (metric tons CO2e).	98.236c16xviii		E								
W - Petroleum and Natural Gas Systems	For local distribution companies: Annual CH4 emissions from all below grade T-D transfer stations combined (metric tons CO2e).	98.236c16xviii		E								
W - Petroleum and Natural Gas Systems	For local distribution companies: Annual CO2 emissions from all above grade metering-regulating stations (including T-D transfer stations) combined (metric tons CO2e).	98.236c16xix		E								
W - Petroleum and Natural Gas Systems	For local distribution companies: Annual CH4 emissions from all above grade metering-regulating stations (including T-D transfer stations) combined (metric tons CO2e).	98.236c16xix		E								
W - Petroleum and Natural Gas Systems	For local distribution companies: Annual CO2 emissions from all below grade metering-regulating stations (including T-D transfer stations) combined (metric tons CO2e).	98.236c16xx		E								
W - Petroleum and Natural Gas Systems	For local distribution companies: Annual CH4 emissions from all below grade metering-regulating stations (including T-D transfer stations) combined (metric tons CO2e).	98.236c16xx		E								
W - Petroleum and Natural Gas Systems	For local distribution companies: Annual CO2 emissions from all distribution mains combined (metric tons CO2e).	98.236c16xxi		E								
W - Petroleum and Natural Gas Systems	For local distribution companies: Annual CH4 emissions from all distribution mains combined (metric tons CO2e).	98.236c16xxi		E								
W - Petroleum and Natural Gas Systems	For local distribution companies: Annual CO2 emissions from all distribution services combined (metric tons CO2e).	98.236c16xxii		E								
W - Petroleum and Natural Gas Systems	For local distribution companies: Annual CH4 emissions from all distribution services combined (metric tons CO2e).	98.236c16xxii		E								
W - Petroleum and Natural Gas Systems	For each EOR injection pump blowdown: Pump capacity (barrels per day).	98.236c17i			PX							
W - Petroleum and Natural Gas Systems	For each EOR injection pump blowdown: For each EOR pump, annual CO2 emissions (metric tons CO2e).	98.236c17v		E								
W - Petroleum and Natural Gas Systems	For each EOR injection pump blowdown: For each EOR pump, annual CH4 emissions (metric tons CO2e).	98.236c17v		E								
W - Petroleum and Natural Gas Systems	For EOR hydrocarbon liquids dissolved CO2 for each sub-basin category: Annual CO2 emissions at the sub-basin level (metric tons CO2e).	98.236c18iii		E								
W - Petroleum and Natural Gas Systems	For onshore petroleum and natural gas production and natural gas distribution combustion emissions: Cumulative number of external fuel combustion units with a rated heat capacity equal to or less than 5 mmBtu/hr, by type of unit.	98.236c19i			PX							
W - Petroleum and Natural Gas Systems	For onshore petroleum and natural gas production and natural gas distribution combustion emissions: Cumulative number of external fuel combustion units with a rated heat capacity larger than 5 mmBtu/hr, by type of unit.	98.236c19ii			PX							
W - Petroleum and Natural Gas Systems	For onshore petroleum and natural gas production and natural gas distribution combustion emissions: Annual CO2 emissions from external fuel combustion units with a rated heat capacity larger than 5 mmBtu/hr (metric tons CO2e), by type of unit.	98.236c19iii		E								
W - Petroleum and Natural Gas Systems	For onshore petroleum and natural gas production and natural gas distribution combustion emissions: Annual CH4 emissions from external fuel combustion units with a rated heat capacity larger than 5 mmBtu/hr (metric tons CO2e), by type of unit.	98.236c19iii		E								

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C = assigned in this final rule to a category with a categorical determination of "not emission data and CBI"
X = assigned in this final rule to a category with a categorical determination of "not emission data and not CBI"
PC = assigned in this final rule to a category without a categorical determination and is CBI
PX = assigned in this final rule to a category without a categorical determination and is not CBI
ND = no determination has been made for this data element (case-by-case CBI determination)

			Category									
Subpart	**Data Element**	**Reporting Section**	**Facility and Unit Identifier Information**	**Emissions**	**Unit/Process Static Characteristics That are Not Inputs to Emission Equations**	**Unit/Process Operating Characteristics That are Not Inputs to Emission Equations**	**Calculation Methodology & Method. Tier**	**Test & Calibration Methods**	**Production/ Throughput Data That are Not Inputs to Emission Equations**	**Raw Materials Consumed That are Not Inputs to Emission Equations**	**Data Elements Reported for Periods of Missing Data that are Not Inputs to Emission Equations**	**Process Specific & Vendor Data Submitted in BAMM Extension Requests**
Final Confidentiality Determinations			Emission Data (made available to the public)	Emission Data (made available to the public)	Both	Both	Emission Data (made available to the public)	Not CBI	CBI	CBI	Emission Data (made available to the public)	CBI
W - Petroleum and Natural Gas Systems	For onshore petroleum and natural gas production and natural gas distribution combustion emissions: Annual N2O emissions from external fuel combustion units with a rated heat capacity larger than 5 mmBtu/hr (metric tons CO2e), by type of unit.	98.236c19iii		E								
W - Petroleum and Natural Gas Systems	For onshore petroleum and natural gas production and natural gas distribution combustion emissions: Cumulative number of internal fuel combustion units, not compressor-drivers, with a rated heat capacity equal to or less than 1 mmBtu/hr or 130 horse power, by type of unit.	98.236c19v			PX							
W - Petroleum and Natural Gas Systems	For onshore petroleum and natural gas production and natural gas distribution combustion emissions: Annual CO2 emissions from internal combustion units greater than 1mmBtu/hr (metric tons CO2e), by type of unit.	98.236c19vi		E								
W - Petroleum and Natural Gas Systems	For onshore petroleum and natural gas production and natural gas distribution combustion emissions: Annual CH4 emissions from internal combustion units greater than 1mmBtu/hr (metric tons CO2e), by type of unit.	98.236c19vi		E								
W - Petroleum and Natural Gas Systems	For onshore petroleum and natural gas production and natural gas distribution combustion emissions: Annual N2O emissions from internal combustion units greater than 1mmBtu/hr (metric tons CO2e), by type of unit.	98.236c19vi		E								
W - Petroleum and Natural Gas Systems	Report annual throughput as determined by engineering estimate based on best available data for each industry segment listed in paragraphs (a)(1) through (a)(8) of this section.	98.236d							C			
W - Petroleum and Natural Gas Systems	For onshore petroleum and natural gas production, report the best available estimate of API gravity for each oil sub-basin category.	98.236e				PX						
W - Petroleum and Natural Gas Systems	For onshore petroleum and natural gas production, report the best available estimate of gas to oil ratio for each oil sub-basin category.	98.236e				PX						
W - Petroleum and Natural Gas Systems	For onshore petroleum and natural gas production, report the best available estimate of average low pressure separator pressure for each oil sub-basin category.	98.236e				PX						
DD - Use of Electric Transmission and Distribution Equipment	Nameplate capacity of equipment containing SF6 or PFCs existing as of the beginning of the year (excluding hermetically sealed-pressure switchgear).	98.306a1			PX							
DD - Use of Electric Transmission and Distribution Equipment	Transmission miles (length of lines carrying voltage above 35 kV).	98.306b			PX							
DD - Use of Electric Transmission and Distribution Equipment	Distribution miles (length of lines carrying voltages at or below 35 kilovolt).	98.306c			PX							
II - Wastewater Treatment	Statement that biogas pressure is incorporated into monitoring equipment internal calculations.	98.356(d)(6)					E					
RR - Geologic Sequestration of Carbon Dioxide	A request for discontinuation of reporting must contain either 40 CFR 98.441(b)(2)(i) or (b)(2)(ii): (i) For wells permitted as Class VI under the Underground Injection Control program, a copy of the applicable Underground Injection Control program Director's authorization of site closure.	98.441b2i						X				
RR - Geologic Sequestration of Carbon Dioxide	A request for discontinuation of reporting must contain either 40 CFR 98.441(b)(2)(i) or (b)(2)(ii): (ii) For all other wells, and as an alternative for wells permitted as Class VI under the Underground Injection Control program, a demonstration that current monitoring and model(s) show that the injected CO2 stream is not expected to migrate in the future in a manner likely to result in surface leakage.	98.441b2ii						X				
RR - Geologic Sequestration of Carbon Dioxide	If the date specified in 40 CFR 98.446(e) is during the reporting year for this annual report, report the following starting on the date specified in 40 CFR 98.446(e): Mass of CO2 emitted (metric tons) annually from equipment leaks and vented emissions of CO2 from equipment located on the surface between the flow meter used to measure injection quantity and the injection wellhead.	98.446f3i		E								
RR - Geologic Sequestration of Carbon Dioxide	If the date specified in 40 CFR 98.446(e) is during the reporting year for this annual report, report the following starting on the date specified in 40 CFR 98.446(e): Mass of CO2 emitted (metric tons) annually from equipment leaks and vented emissions of CO2 from equipment located on the surface between the production wellhead and the flow meter used to measure production quantity.	98.446f3ii		E								

Table 1: List of Final Data Category Assignments and CBI Determinations for Direct Emitter Subparts I, W, DD, II, RR, SS, and TT.

Key:

E = assigned in this final rule to a category with a categorical determination of "emission data"
C = assigned in this final rule to a category with a categorical determination of "not emission data and CBI"
X = assigned in this final rule to a category with a categorical determination of "not emission data and not CBI"
PC = assigned in this final rule to a category without a categorical determination and is CBI
PX = assigned in this final rule to a category without a categorical determination and is not CBI
ND = no determination has been made for this data element (case-by-case CBI determination)

			Category									
Subpart	**Data Element**	**Reporting Section**	**Facility and Unit Identifier Information**	**Emissions**	**Unit/Process Static Characteristics That are Not Inputs to Emission Equations**	**Unit/Process Operating Characteristics That are Not Inputs to Emission Equations**	**Calculation Methodology & Method. Tier**	**Test & Calibration Methods**	**Production/ Throughput Data That are Not Inputs to Emission Equations**	**Raw Materials Consumed That are Not Inputs to Emission Equations**	**Data Elements Reported for Periods of Missing Data that are Not Inputs to Emission Equations**	**Process Specific & Vendor Data Submitted in BAMM Extension Requests**
Final Confidentiality Determinations			Emission Data (made available to the public)	Emission Data (made available to the public)	Both	Both	Emission Data (made available to the public)	Not CBI	CBI	CBI	Emission Data (made available to the public)	CBI
RR - Geologic Sequestration of Carbon Dioxide	If the date specified in 40 CFR 98.446(e) is during the reporting year for this annual report, report the following starting on the date specified in 40 CFR 98.446(e): For each leakage pathway through which CO2 emissions occurred, report a numerical identifier for the leakage pathway.	98.446f7i	E									
RR - Geologic Sequestration of Carbon Dioxide	If the date specified in 40 CFR 98.446(e) is during the reporting year for this annual report, report the following starting on the date specified in 40 CFR 98.446(e): For each leakage pathway through which CO2 emissions occurred, report CO2 emitted through that leakage pathway in the reporting year.	98.446f7ii		E								
RR - Geologic Sequestration of Carbon Dioxide	If the date specified in 40 CFR 98.446(e) is during the reporting year for this annual report, report the following starting on the date specified in 40 CFR 98.446(e): Annual CO2 mass emitted (metric tons) by surface leakage in the reporting year, as calculated by Equation RR-10.	98.446f8		E								
RR - Geologic Sequestration of Carbon Dioxide	If the date specified in 40 CFR 98.446(e) is during the reporting year for this annual report, report the following starting on the date specified in 40 CFR 98.446(e): Date that most recent MRV plan was approved by EPA.	98.446f11	E									
RR - Geologic Sequestration of Carbon Dioxide	If the date specified in 40 CFR 98.446(e) is during the reporting year for this annual report, report the following starting on the date specified in 40 CFR 98.446(e): MRV plan approval number that was issued by EPA.	98.446f11	E									
RR - Geologic Sequestration of Carbon Dioxide	If the date specified in 40 CFR 98.446(e) is during the reporting year for this annual report, report the following starting on the date specified in 40 CFR 98.446(e): An annual monitoring report that contains a narrative history of the monitoring efforts conducted over the previous calendar year, including a listing of all monitoring equipment that was operated, its period of operation, and any relevant tests or surveys that were conducted.	98.446f12i						X				
RR - Geologic Sequestration of Carbon Dioxide	If the date specified in 40 CFR 98.446(e) is during the reporting year for this annual report, report the following starting on the date specified in 40 CFR 98.446(e): An annual monitoring report that contains a description of any changes to the monitoring program that you concluded were not material changes warranting submission of a revised MRV plan under 40 CFR 98.448(d).	98.446f12ii						X				
RR - Geologic Sequestration of Carbon Dioxide	If the date specified in 40 CFR 98.446(e) is during the reporting year for this annual report, report the following starting on the date specified in 40 CFR 98.446(e): An annual monitoring report that contains a narrative history of any monitoring anomalies that were detected in the previous calendar year and how they were investigated and resolved.	98.446f12iii						X				
RR - Geologic Sequestration of Carbon Dioxide	If the date specified in 40 CFR 98.446(e) is during the reporting year for this annual report, report the following starting on the date specified in 40 CFR 98.446(e): An annual monitoring report that contains a description of any surface leakages of CO2, including a discussion of all methodologies and technologies involved in detecting and quantifying the surface leakages and any assumptions and uncertainties involved in calculating the amount of CO2 emitted.	98.446f12iv					E					
RR - Geologic Sequestration of Carbon Dioxide	MRV Plans and revised MRV Plans.	98.448						X				
SS - Manufacture of Electric Transmission and Distribution Equipment	Nameplate capacity of the equipment delivered to customers with SF6 or PFCs inside, if different from the quantity in 40 CFR 98.456(f).	98.456k							C			
SS - Manufacture of Electric Transmission and Distribution Equipment	Description of the engineering methods and calculations used to determine emissions from hoses or other flow lines that connect the container to the equipment that is being filled.	98.456l					E					
SS - Manufacture of Electric Transmission and Distribution Equipment	Number of samples for each make, model, and group of conditions if the mass of SF6 or the PFC 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.	98.456p					E					
SS - Manufacture of Electric Transmission and Distribution Equipment	Upper and lower bounds on the 95 percent confidence interval for each make, model, and group of conditions if the mass of SF6 or the PFC 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.	98.456p					E					
SS - Manufacture of Electric Transmission and Distribution Equipment	For any missing data: Reason data were missing.	98.456t									E	

Table 1: List of Final Data Category Assignments and CBI Determinations for Direct Emitter Subparts I, W, DD, II, RR, SS, and TT.

Key:

E = assigned in this final rule to a category with a categorical determination of "emission data"
C = assigned in this final rule to a category with a categorical determination of "not emission data and CBI"
X = assigned in this final rule to a category with a categorical determination of "not emission data and not CBI"
PC = assigned in this final rule to a category without a categorical determination and is CBI
PX = assigned in this final rule to a category without a categorical determination and is not CBI
ND = no determination has been made for this data element (case-by-case CBI determination)

			Category									
Subpart	**Data Element**	**Reporting Section**	**Facility and Unit Identifier Information**	**Emissions**	**Unit/Process Static Characteristics That are Not Inputs to Emission Equations**	**Unit/Process Operating Characteristics That are Not Inputs to Emission Equations**	**Calculation Methodology & Method. Tier**	**Test & Calibration Methods**	**Production/ Throughput Data That are Not Inputs to Emission Equations**	**Raw Materials Consumed That are Not Inputs to Emission Equations**	**Data Elements Reported for Periods of Missing Data that are Not Inputs to Emission Equations**	**Process Specific & Vendor Data Submitted in BAMM Extension Requests**
Final Confidentiality Determinations			Emission Data (made available to the public)	Emission Data (made available to the public)	Both	Both	Emission Data (made available to the public)	Not CBI	CBI	CBI	Emission Data (made available to the public)	CBI
SS - Manufacture of Electric Transmission and Distribution Equipment	For any missing data: Parameters for which the data were missing.	98.456t									E	
SS - Manufacture of Electric Transmission and Distribution Equipment	For any missing data: Quantity of emissions estimated.	98.456t		E								
TT- Industrial Landfills	If an MCF value other than the default of 1 is used, provide a description of the aeration system, including aeration blower capacity.	98.466b4			PX							
TT- Industrial Landfills	If an MCF value other than the default of 1 is used, provide a description of the aeration system, including the fraction of the landfill containing waste affected by the aeration.	98.466b4				PX						
TT- Industrial Landfills	If an MCF value other than the default of 1 is used, provide a description of the aeration system, including the total number of hours during the year the aeration blower was operated.	98.466b4				PX						
TT- Industrial Landfills	If an MCF value other than the default of 1 is used, provide a description of the aeration system, including other factors used as a basis for the selected MCF value.	98.466b4				PX						
TT- Industrial Landfills	The calendar year for which the data elements in 40 CFR 98.466(b) apply.	98.466d1					E					
TT- Industrial Landfills	If DOC_f was determined by a 60-day anaerobic biodegradation test, specify the test method used.	98.466d3						X				

Table 2: List of Final Data Category Assignments and CBI Determinations for Supplier Subparts QQ, RR, and UU.

Key:

C = assigned in this final rule to a category with a categorical determination of "not emission data and CBI"
X = assigned in this final rule to a category with a categorical determination of "not emission data and not CBI"
PC = assigned in this final rule to a category without a categorical determination and is CBI
PX = assigned in this final rule to a category without a categorical determination and is not CBI
ND = no determination has been made for this data element (case-by-case CBI determination)

			Category											
Subpart		Reporting Section	Identification Information	GHGs Reported	Emission Factors	Unit/ Process Operating Characteristics	Calculation, Test, and Calibration Methods	Production/ Throughput Quantities and Composition	Amount & Composition of Materials Received	Data Elements Reported for Periods of Missing Data That are Related to Production/Throughput or Materials Received	Data Elements Reported for Periods of Missing Data That are Not Related to Production/Throughput or Materials Received	Supplier Customer and Vendor Information	Process Specifc and Vendor Data Submitted in BAMM Extension Requests
Final Confidentiality Determinations			Not CBI	Both	CBI	Both	Not CBI	Both	CBI	CBI	Not CBI	CBI	CBI
QQ - Imports and Exports of Equipment Pre-charged with F-GHGs or Containing F-GHGs in Closed-cell Foams	Total mass of each F-GHG imported in pre-charged equipment or closed-cell foams.	98.436a1						PC					
QQ - Imports and Exports of Equipment Pre-charged with F-GHGs or Containing F-GHGs in Closed-cell Foams	For each type of pre-charged equipment with a unique combination of charge size and charge type: Identity of F-GHG used as a refrigerant or electrical insulator.	98.436a2						PC					
QQ - Imports and Exports of Equipment Pre-charged with F-GHGs or Containing F-GHGs in Closed-cell Foams	For each type of pre-charged equipment with a unique combination of charge size and charge type: Charge size.	98.436a2						PC					
QQ - Imports and Exports of Equipment Pre-charged with F-GHGs or Containing F-GHGs in Closed-cell Foams	For each type of pre-charged equipment with a unique combination of charge size and charge type: Number imported.	98.436a2						PC					
QQ - Imports and Exports of Equipment Pre-charged with F-GHGs or Containing F-GHGs in Closed-cell Foams	For closed-cell foams that are imported inside of appliances: Identity of the F-GHG contained in the foam in each appliance.	98.436a3						PC					
QQ - Imports and Exports of Equipment Pre-charged with F-GHGs or Containing F-GHGs in Closed-cell Foams	For closed-cell foams that are imported inside of appliances: Mass of the F-GHG contained in the foam in each appliance.	98.436a3						PC					
QQ - Imports and Exports of Equipment Pre-charged with F-GHGs or Containing F-GHGs in Closed-cell Foams	For closed-cell foams that are imported inside of appliances: Number of appliances imported.	98.436a3						PC					
QQ - Imports and Exports of Equipment Pre-charged with F-GHGs or Containing F-GHGs in Closed-cell Foams	For closed cell-foams that are not imported inside of appliances: Identity of the F-GHG in the foam.	98.436a4						PC					
QQ - Imports and Exports of Equipment Pre-charged with F-GHGs or Containing F-GHGs in Closed-cell Foams	For closed cell-foams that are not imported inside of appliances: Density of the F-GHG in the foam.	98.436a4						PC					
QQ - Imports and Exports of Equipment Pre-charged with F-GHGs or Containing F-GHGs in Closed-cell Foams	For closed cell-foams that are not imported inside of appliances: Volume of foam imported.	98.436a4						PC					
QQ - Imports and Exports of Equipment Pre-charged with F-GHGs or Containing F-GHGs in Closed-cell Foams	Dates on which pre-charged equipment were imported.	98.436a5				ND							
QQ - Imports and Exports of Equipment Pre-charged with F-GHGs or Containing F-GHGs in Closed-cell Foams	Dates on which closed-cell foams were imported.	98.436a5				ND							
QQ - Imports and Exports of Equipment Pre-charged with F-GHGs or Containing F-GHGs in Closed-cell Foams	If the importer does not know the identity and mass of the F-GHGs within the closed-cell foam: Total mass of CO2e of the F-GHGs imported in closed-cell foams (metric tons).	98.436a6i						PC					
QQ - Imports and Exports of Equipment Pre-charged with F-GHGs or Containing F-GHGs in Closed-cell Foams	If the importer does not know the identity and mass of the F-GHGs within the closed-cell foam: For closed-cell foams that are imported inside of appliances, the mass of the F-GHGs in CO2e contained in the foam in each appliance.	98.436a6ii						PC					
QQ - Imports and Exports of Equipment Pre-charged with F-GHGs or Containing F-GHGs in Closed-cell Foams	If the importer does not know the identity and mass of the F-GHGs within the closed-cell foam: For closed-cell foams that are imported inside of appliances, the number of appliances imported for each type of appliance.	98.436a6ii						PC					
QQ - Imports and Exports of Equipment Pre-charged with F-GHGs or Containing F-GHGs in Closed-cell Foams	If the importer does not know the identity and mass of the F-GHGs within the closed-cell foam: For closed-cell foams that are not imported inside of appliances, the mass in CO2e of the F-GHGs in the foam.	98.436a6iii						PC					

Table 2: List of Final Data Category Assignments and CBI Determinations for Supplier Subparts QQ, RR, and UU.

Key:

C = assigned in this final rule to a category with a categorical determination of "not emission data and CBI"
X = assigned in this final rule to a category with a categorical determination of "not emission data and not CBI"
PC = assigned in this final rule to a category without a categorical determination and is CBI
PX = assigned in this final rule to a category without a categorical determination and is not CBI
ND = no determination has been made for this data element (case-by-case CBI determination)

			Category											
Subpart		**Reporting Section**	**Identification Information**	**GHGs Reported**	**Emission Factors**	**Unit/ Process Operating Characteristics**	**Calculation, Test, and Calibration Methods**	**Production/ Throughput Quantities and Composition**	**Amount & Composition of Materials Received**	**Data Elements Reported for Periods of Missing Data That are Related to Production/Throughput or Materials Received**	**Data Elements Reported for Periods of Missing Data That are Not Related to Production/Throughput or Materials Received**	**Supplier Customer and Vendor Information**	**Process Specifc and Vendor Data Submitted in BAMM Extension Requests**
Final Confidentiality Determinations			Not CBI	Both	CBI	Both	Not CBI	Both	CBI	CBI	Not CBI	CBI	CBI
QQ - Imports and Exports of Equipment Pre-charged with F-GHGs or Containing F-GHGs in Closed-cell Foams	If the importer does not know the identity and mass of the F-GHGs within the closed-cell foam: For closed-cell foams that are not imported inside of appliances, the volume of foam imported for each type of closed-cell foam.	98.436a6iii						PC					
QQ - Imports and Exports of Equipment Pre-charged with F-GHGs or Containing F-GHGs in Closed-cell Foams	If the importer does not know the identity and mass of the F-GHGs within the closed-cell foam: Dates on which the closed-cell foams were imported.	98.436a6iv				ND							
QQ - Imports and Exports of Equipment Pre-charged with F-GHGs or Containing F-GHGs in Closed-cell Foams	If the importer does not know the identity and mass of the F-GHGs within the closed-cell foam: Name of the foam manufacturer for each type of closed-cell foam where the identity and mass of the F-GHGs is unknown.	98.436a6v										C	
QQ - Imports and Exports of Equipment Pre-charged with F-GHGs or Containing F-GHGs in Closed-cell Foams	If the importer does not know the identity and mass of the F-GHGs within the closed-cell foam: Certification that the importer was unable to obtain information on the identity and mass of the F-GHGs within the closed-cell foam from the closed-cell foam manufacturer or manufacturers.	98.436a6vi				PX							
QQ - Imports and Exports of Equipment Pre-charged with F-GHGs or Containing F-GHGs in Closed-cell Foams	Total mass of each F-GHG exported in pre-charged equipment or closed-cell foams.	98.436b1						PC					
QQ - Imports and Exports of Equipment Pre-charged with F-GHGs or Containing F-GHGs in Closed-cell Foams	Identify of the F-GHG used as refrigerant or electrical insulator.	98.436b2						PC					
QQ - Imports and Exports of Equipment Pre-charged with F-GHGs or Containing F-GHGs in Closed-cell Foams	For each type of pre-charged equipment with a unique combination of charge size and charge type: Charge size (including holding charge, if applicable).	98.436b2						PC					
QQ - Imports and Exports of Equipment Pre-charged with F-GHGs or Containing F-GHGs in Closed-cell Foams	For each type of pre-charged equipment with a unique combination of charge size and charge type: Number of each type of pre-charged equipment exported.	98.436b2						PC					
QQ - Imports and Exports of Equipment Pre-charged with F-GHGs or Containing F-GHGs in Closed-cell Foams	For closed-cell foams that are exported inside of appliances: Identity of F-GHG contained in the closed-cell foam in each appliance exported.	98.436b3						PC					
QQ - Imports and Exports of Equipment Pre-charged with F-GHGs or Containing F-GHGs in Closed-cell Foams	For closed-cell foams that are exported inside of appliances: Mass of F-GHG contained in the foam in each appliance.	98.436b3						PC					
QQ - Imports and Exports of Equipment Pre-charged with F-GHGs or Containing F-GHGs in Closed-cell Foams	For closed-cell foams that are exported inside of appliances: Number of appliances exported.	98.436b3						PC					
QQ - Imports and Exports of Equipment Pre-charged with F-GHGs or Containing F-GHGs in Closed-cell Foams	For closed-cell foams that are not exported inside of appliances: Identity of each F-GHG contained in the foam.	98.436b4						PC					
QQ - Imports and Exports of Equipment Pre-charged with F-GHGs or Containing F-GHGs in Closed-cell Foams	For closed-cell foams that are not exported inside of appliances: Density of each F-GHG contained in the foam.	98.436b4						PC					
QQ - Imports and Exports of Equipment Pre-charged with F-GHGs or Containing F-GHGs in Closed-cell Foams	For closed-cell foams that are not exported inside of appliances: Volume of foam exported.	98.436b4						PC					
QQ - Imports and Exports of Equipment Pre-charged with F-GHGs or Containing F-GHGs in Closed-cell Foams	Dates on which the pre-charged equipment were exported.	98.436b5				ND							
QQ - Imports and Exports of Equipment Pre-charged with F-GHGs or Containing F-GHGs in Closed-cell Foams	Dates on which the closed-cell foams were exported.	98.436b5				ND							

Table 2: List of Final Data Category Assignments and CBI Determinations for Supplier Subparts QQ, RR, and UU.

Key:

C = assigned in this final rule to a category with a categorical determination of "not emission data and CBI"
X = assigned in this final rule to a category with a categorical determination of "not emission data and not CBI"
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			Category											
Subpart		Reporting Section	Identification Information	GHGs Reported	Emission Factors	Unit/ Process Operating Characteristics	Calculation, Test, and Calibration Methods	Production/ Throughput Quantities and Composition	Amount & Composition of Materials Received	Data Elements Reported for Periods of Missing Data That are Related to Production/Throughput or Materials Received	Data Elements Reported for Periods of Missing Data That are Not Related to Production/Throughput or Materials Received	Supplier Customer and Vendor Information	Process Specifc and Vendor Data Submitted in BAMM Extension Requests
Final Confidentiality Determinations			Not CBI	Both	CBI	Both	Not CBI	Both	CBI	CBI	Not CBI	CBI	CBI
QQ - Imports and Exports of Equipment Pre-charged with F-GHGs or Containing F-GHGs in Closed-cell Foams	If the exporter does not know the identity and mass of the F-GHG within the closed-cell foam: Total mass in metric tons of CO2e of the F-GHGs exported in closed-cell foams.	98.436b6i						PC					
QQ - Imports and Exports of Equipment Pre-charged with F-GHGs or Containing F-GHGs in Closed-cell Foams	If the exporter does not know the identity and mass of the F-GHG within the closed-cell foam: For closed-cell foams that are exported inside of appliances, the mass of the F-GHGs in CO2e contained in the foam in each appliance.	98.436b6ii						PC					
QQ - Imports and Exports of Equipment Pre-charged with F-GHGs or Containing F-GHGs in Closed-cell Foams	If the exporter does not know the identity and mass of the F-GHG within the closed-cell foam: For closed-cell foams that are exported inside of appliances, the number of appliances imported for each type of appliance.	98.436b6ii						PC					
QQ - Imports and Exports of Equipment Pre-charged with F-GHGs or Containing F-GHGs in Closed-cell Foams	If the exporter does not know the identity and mass of the F-GHG within the closed-cell foam: For closed-cell foams that are not exported inside of appliances, the mass in CO2e of the F-GHGs in the foam.	98.436b6iii						PC					
QQ - Imports and Exports of Equipment Pre-charged with F-GHGs or Containing F-GHGs in Closed-cell Foams	If the exporter does not know the identity and mass of the F-GHG within the closed-cell foam: For closed-cell foams that are not exported inside of appliances, the volume of foam imported (cubic feet) for each type of closed-cell foam.	98.436b6iii						PC					
QQ - Imports and Exports of Equipment Pre-charged with F-GHGs or Containing F-GHGs in Closed-cell Foams	If the exporter does not know the identity and mass of the F-GHG within the closed-cell foam: Dates on which the closed-cell foams were exported.	98.436b6iv				ND							
QQ - Imports and Exports of Equipment Pre-charged with F-GHGs or Containing F-GHGs in Closed-cell Foams	Name of the foam manufacturer for each type of closed-cell foam where the identity and mass of the F-GHG is unknown.	98.436b6v										C	
QQ - Imports and Exports of Equipment Pre-charged with F-GHGs or Containing F-GHGs in Closed-cell Foams	If the exporter does not know the identity and mass of the F-GHG within the closed-cell foam: Certification that the exporter was unable to obtain information on the identity and mass of the F-GHGs within the closed-cell foam from the closed-cell foam manufacturer or manufacturers.	98.436b6vi				PX							
RR - Geologic Sequestration of Carbon Dioxide	For submissions in support of an R&D project exemption from reporting under subpart RR: the planned duration of CO2 injection for the project.	98.440d2i				PX							
RR - Geologic Sequestration of Carbon Dioxide	For submissions in support of an R&D project exemption from reporting under subpart RR: planned annual CO2 injection volumes during this time period.	98.440d2ii						PX					
RR - Geologic Sequestration of Carbon Dioxide	For submissions in support of an R&D project exemption from reporting under subpart RR: the research purposes of the project.	98.440d2iii				PX							
RR - Geologic Sequestration of Carbon Dioxide	For submissions in support of an R&D project exemption from reporting under subpart RR: the source and type of funding for the project.	98.440d2iv				PX							
RR - Geologic Sequestration of Carbon Dioxide	For submissions in support of an R&D project exemption from reporting under subpart RR: the class of the underground injection control permit.	98.440d2v				PX							
RR - Geologic Sequestration of Carbon Dioxide	For submissions in support of an R&D project exemption from reporting under subpart RR: the duration of the underground injection control permit.	98.440d2v				PX							
RR - Geologic Sequestration of Carbon Dioxide	For submissions in support of an R&D project exemption from reporting under subpart RR: for an offshore facility not subject to Safe Drinking Water Act, a description of the legal instrument authorizing geologic sequestration.	98.440d2v				PX							
RR - Geologic Sequestration of Carbon Dioxide	If you receive CO2 by pipeline, report the following for each receiving flow meter: Total net mass of CO2 received (metric tons) annually.	98.446a1						ND					
RR - Geologic Sequestration of Carbon Dioxide	If a volumetric flow meter is used to receive CO2 report the following unless you reported yes to 40 CFR 98.446(a)(4): Volumetric flow through a receiving flow meter at standard conditions (in standard cubic meters) in each quarter.	98.446a2i						ND					

Table 2: List of Final Data Category Assignments and CBI Determinations for Supplier Subparts QQ, RR, and UU.

Key:

C = assigned in this final rule to a category with a categorical determination of "not emission data and CBI"
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PX = assigned in this final rule to a category without a categorical determination and is not CBI
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			Category											
Subpart		Reporting Section	Identification Information	GHGs Reported	Emission Factors	Unit/ Process Operating Characteristics	Calculation, Test, and Calibration Methods	Production/ Throughput Quantities and Composition	Amount & Composition of Materials Received	Data Elements Reported for Periods of Missing Data That are Related to Production/Throughput or Materials Received	Data Elements Reported for Periods of Missing Data That are Not Related to Production/Throughput or Materials Received	Supplier Customer and Vendor Information	Process Specifc and Vendor Data Submitted in BAMM Extension Requests
Final Confidentiality Determinations			Not CBI	Both	CBI	Both	Not CBI	Both	CBI	CBI	Not CBI	CBI	CBI
RR - Geologic Sequestration of Carbon Dioxide	If a volumetric flow meter is used to receive CO2 report the following unless you reported yes to 40 CFR 98.446(a)(4): The volumetric flow through a receiving flow meter that is redelivered to another facility without being injected into your well (in standard cubic meters) in each quarter.	98.446a2ii						ND					
RR - Geologic Sequestration of Carbon Dioxide	If a volumetric flow meter is used to receive CO2 report the following unless you reported yes to 40 CFR 98.446(a)(4): CO2 concentration in the flow (volume percent CO2 expressed as a decimal fraction) in each quarter.	98.446a2iii						ND					
RR - Geologic Sequestration of Carbon Dioxide	If a mass flow meter is used to receive CO2 report the following unless you reported yes to 40 CFR 98.446(a)(4): The mass flow through a receiving flow meter (in metric tons) in each quarter.	98.446a3i						ND					
RR - Geologic Sequestration of Carbon Dioxide	If a mass flow meter is used to receive CO2 report the following unless you reported yes to 40 CFR 98.446(a)(4): The mass flow through a receiving flow meter that is redelivered to another facility without being injected into your well (in metric tons) in each quarter.	98.446a3ii						ND					
RR - Geologic Sequestration of Carbon Dioxide	If a mass flow meter is used to receive CO2 report the following unless you reported yes to 40 CFR 98.446(a)(4): The CO2 concentration in the flow (weight percent CO2 expressed as a decimal fraction) in each quarter.	98.446a3iii						ND					
RR - Geologic Sequestration of Carbon Dioxide	If the CO2 received is wholly injected and not mixed with any other supply of CO2: Report whether you followed the procedures in 40 CFR 98.444(a)(4).	98.446a4					X						
RR - Geologic Sequestration of Carbon Dioxide	The standard or method used to calculate each value in 40 CFR 98.446(a)(2) through (a)(3).	98.446a5					X						
RR - Geologic Sequestration of Carbon Dioxide	Number of times in the reporting year for which substitute data procedures were used to calculate values reported in 40 CFR 98.446(a)(2) through (a)(3).	98.446a6									X		
RR - Geologic Sequestration of Carbon Dioxide	If you receive CO2 by pipeline: For each flow meter, report whether the flow meter is mass or volumetric.	98.446a7					X						
RR - Geologic Sequestration of Carbon Dioxide	If you receive CO2 by pipeline: For each flow meter, a numerical identifier for the flow meter.	98.446a8	X										
RR - Geologic Sequestration of Carbon Dioxide	If you receive CO2 in containers, report: The mass (in metric tons) or volume at standard conditions (in standard cubic meters) of contents in containers in each quarter.	98.446b1						ND					
RR - Geologic Sequestration of Carbon Dioxide	If you receive CO2 in containers: Concentration of CO2 of contents in containers (volume or wt. % CO2 expressed as a decimal fraction) in each quarter.	98.446b2						ND					
RR - Geologic Sequestration of Carbon Dioxide	If you receive CO2 in containers, report: The mass (in metric tons) or volume (in standard cubic meters) of contents in containers that is redelivered to another facility without being injected into your well in each quarter.	98.446b3						ND					
RR - Geologic Sequestration of Carbon Dioxide	If you receive CO2 in containers: Net mass of CO2 received (metric tons) annually.	98.446b4						ND					
RR - Geologic Sequestration of Carbon Dioxide	If you receive CO2 in containers: Standard or method used to calculate each value in 40 CFR 98.446(b)(1) and (b)(2).	98.446b5					X						
RR - Geologic Sequestration of Carbon Dioxide	If you receive CO2 in containers: Number of times in the reporting year for which substitute data procedures were used to calculate values reported in paragraphs 40 CFR 98.446(b)(1) and (b)(2).	98.446b6									X		
RR - Geologic Sequestration of Carbon Dioxide	If you use more than one receiving flow meter: Total net mass of CO2 received (metric tons) through all flow meters annually.	98.446c						ND					
RR - Geologic Sequestration of Carbon Dioxide	Source of the CO2 received according to the following categories: CO2 production wells, electric generating unit, ethanol plant, pulp and paper mill, natural gas processing, gasification operations, other anthropogenic source, discontinued enhanced oil and gas recovery project, unknown.	98.446d(1)-(9)				PX							
RR - Geologic Sequestration of Carbon Dioxide	Report the date that you began collecting data for calculating total amount sequestered according to 40 CFR 98.448(a)(7).	98.446e					X						

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			Category											
Subpart		Reporting Section	Identification Information	GHGs Reported	Emission Factors	Unit/ Process Operating Characteristics	Calculation, Test, and Calibration Methods	Production/ Throughput Quantities and Composition	Amount & Composition of Materials Received	Data Elements Reported for Periods of Missing Data That are Related to Production/Throughput or Materials Received	Data Elements Reported for Periods of Missing Data That are Not Related to Production/Throughput or Materials Received	Supplier Customer and Vendor Information	Process Specifc and Vendor Data Submitted in BAMM Extension Requests
Final Confidentiality Determinations			Not CBI	Both	CBI	Both	Not CBI	Both	CBI	CBI	Not CBI	CBI	CBI
RR - Geologic Sequestration of Carbon Dioxide	If the date specified in 40 CFR 98.446(e) is during the reporting year for this annual report, report the following starting on the date specified in 40 CFR 98.446(e): For each injection flow meter (mass or volumetric), report: the mass of CO2 injected annually.	98.446f1i						PX					
RR - Geologic Sequestration of Carbon Dioxide	If the date specified in 40 CFR 98.446(e) is during the reporting year for this annual report, report the following starting on the date specified in 40 CFR 98.446(e): For each injection flow meter (mass or volumetric), report CO2 concentration in flow (volume or wt.% CO2 expressed as a decimal fraction) in each quarter.	98.446f1ii						PX					
RR - Geologic Sequestration of Carbon Dioxide	If the date specified in 40 CFR 98.446(e) is during the reporting year for this annual report, report the following starting on the date specified in 40 CFR 98.446(e): For each injection flow meter, report: If a volumetric flow meter is used, the volumetric flow rate at standard conditions (in standard cubic meters) in each quarter.	98.446f1iii						PX					
RR - Geologic Sequestration of Carbon Dioxide	If the date specified in 40 CFR 98.446(e) is during the reporting year for this annual report, report the following starting on the date specified in 40 CFR 98.446(e): For each injection flow meter, report: If a mass flow meter is used, the mass flow rate (in metric tons) each quarter.	98.446f1iv						PX					
RR - Geologic Sequestration of Carbon Dioxide	If the date specified in 40 CFR 98.446(e) is during the reporting year for this annual report, report the following starting on the date specified in 40 CFR 98.446(e): For each injection flow meter, report a numerical identifier.	98.446f1v	X										
RR - Geologic Sequestration of Carbon Dioxide	If the date specified in 40 CFR 98.446(e) is during the reporting year for this annual report, report the following starting on the date specified in 40 CFR 98.446(e): For each injection flow meter, report whether the flow meter is mass or volumetric.	98.446f1vi					X						
RR - Geologic Sequestration of Carbon Dioxide	If the date specified in 40 CFR 98.446(e) is during the reporting year for this annual report, report the following starting on the date specified in 40 CFR 98.446(e): The standard used to calculate each value in 40 CFR 98.446(f)(1)(ii) through (f)(1)(iv).	98.446f1vii					X						
RR - Geologic Sequestration of Carbon Dioxide	If the date specified in 40 CFR 98.446(e) is during the reporting year for this annual report, report the following starting on the date specified in 40 CFR 98.446(e): For each injection flow meter, report the number of times in the reporting year for which substitute data procedures were used to calculate values reported in 40 CFR 98.446(f)(1)(ii) through 98.446(f)(1)(iv).	98.446f1viii									X		
RR - Geologic Sequestration of Carbon Dioxide	If the date specified in 40 CFR 98.446(e) is during the reporting year for this annual report, report the following starting on the date specified in 40 CFR 98.446(e): For each injection flow meter, report the location of the flow meter.	98.446f1ix				PX							
RR - Geologic Sequestration of Carbon Dioxide	If the date specified in 40 CFR 98.446(e) is during the reporting year for this annual report, report the following starting on the date specified in 40 CFR 98.446(e): Total CO2 injected during the reporting year as calculated in Equation RR-6.	98.446f2						PX					
RR - Geologic Sequestration of Carbon Dioxide	If the date specified in 40 CFR 98.446(e) is during the reporting year for this annual report, report the following starting on the date specified in 40 CFR 98.446(e): For each separator flow meter (mass or volumetric), report CO2 mass produced (metric tons) annually.	98.446f4i						ND					
RR - Geologic Sequestration of Carbon Dioxide	If the date specified in 40 CFR 98.446(e) is during the reporting year for this annual report, report the following starting on the date specified in 40 CFR 98.446(e): For each separator flow meter (mass or volumetric), report CO2 concentration in flow (volume or wt. % CO2 expressed as a decimal fraction) in each quarter.	98.446f4ii						ND					
RR - Geologic Sequestration of Carbon Dioxide	If the date specified in 40 CFR 98.446(e) is during the reporting year for this annual report, report the following starting on the date specified in 40 CFR 98.446(e): If a volumetric flow meter is used, volumetric flow rate at standard conditions (standard cubic meters) in each quarter.	98.446f4iii						ND					

Table 2: List of Final Data Category Assignments and CBI Determinations for Supplier Subparts QQ, RR, and UU.

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			Category											
Subpart		**Reporting Section**	**Identification Information**	**GHGs Reported**	**Emission Factors**	**Unit/ Process Operating Characteristics**	**Calculation, Test, and Calibration Methods**	**Production/ Throughput Quantities and Composition**	**Amount & Composition of Materials Received**	**Data Elements Reported for Periods of Missing Data That are Related to Production/Throughput or Materials Received**	**Data Elements Reported for Periods of Missing Data That are Not Related to Production/Throughput or Materials Received**	**Supplier Customer and Vendor Information**	**Process Specifc and Vendor Data Submitted in BAMM Extension Requests**
Final Confidentiality Determinations			Not CBI	Both	CBI	Both	Not CBI	Both	CBI	CBI	Not CBI	CBI	CBI
RR - Geologic Sequestration of Carbon Dioxide	If the date specified in 40 CFR 98.446(e) is during the reporting year for this annual report, report the following starting on the date specified in 40 CFR 98.446(e): If a mass flow meter is used, mass flow rate (metric tons) in each quarter.	98.446f4iv						ND					
RR - Geologic Sequestration of Carbon Dioxide	If the date specified in 40 CFR 98.446(e) is during the reporting year for this annual report, report the following starting on the date specified in 40 CFR 98.446(e): A numerical identifier for the flow meter.	98.446f4v	X										
RR - Geologic Sequestration of Carbon Dioxide	If the date specified in 40 CFR 98.446(e) is during the reporting year for this annual report, report the following starting on the date specified in 40 CFR 98.446(e): Whether the flow meter is mass or volumetric.	98.446f4vi					X						
RR - Geologic Sequestration of Carbon Dioxide	If the date specified in 40 CFR 98.446(e) is during the reporting year for this annual report, report the following starting on the date specified in 40 CFR 98.446(e): Standard used to calculate each value in 40 CFR 98.446(f)(4)(ii) through (f)(4)(iv).	98.446f4vii					X						
RR - Geologic Sequestration of Carbon Dioxide	If the date specified in 40 CFR 98.446(e) is during the reporting year for this annual report, report the following starting on the date specified in 40 CFR 98.446(e): Number of times in the reporting year for which substitute data procedures were used to calculate values reported in 40 CFR 98.446(f)(4)(ii) through (f)(4)(iv).	98.446f4viii									X		
RR - Geologic Sequestration of Carbon Dioxide	If the date specified in 40 CFR 98.446(e) is during the reporting year for this annual report, report the following starting on the date specified in 40 CFR 98.446(e): The entrained CO2 in produced oil or other fluid divided by the CO2 separated through all separators in the reporting year (weight percent CO2 expressed as a decimal fraction) used as the value for X in Equation RR-9 and as determined according to your EPA-approved MRV plan.	98.446f5						PX					
RR - Geologic Sequestration of Carbon Dioxide	If the date specified in 40 CFR 98.446(e) is during the reporting year for this annual report, report the following starting on the date specified in 40 CFR 98.446(e): Annual CO2 produced in the reporting year, as calculated in Equation RR-9.	98.446f6						PX					
RR - Geologic Sequestration of Carbon Dioxide	If the date specified in 40 CFR 98.446(e) is during the reporting year for this annual report, report the following starting on the date specified in 40 CFR 98.446(e): Annual CO2 sequestered in the subsurface geologic formations in the reporting year, as calculated by Equation RR-11 or RR-12.	98.446f9						PX					
RR - Geologic Sequestration of Carbon Dioxide	If the date specified in 40 CFR 98.446(e) is during the reporting year for this annual report, report the following starting on the date specified in 40 CFR 98.446(e): Cumulative mass of CO2 reported as sequestered in the subsurface geologic formations in all years since the well or group of wells became subject to reporting requirements under subpart RR.	98.446f10						PX					
RR - Geologic Sequestration of Carbon Dioxide	If the date specified in 40 CFR 98.446(e) is during the reporting year for this annual report, report the following starting on the date specified in 40 CFR 98.446(e): If the well is permitted by an Underground Injection Control program, for each injection well, report the well identification number used for the Underground Injection Control Permit.	98.446f13i	X										
RR - Geologic Sequestration of Carbon Dioxide	If the date specified in 40 CFR 98.446(e) is during the reporting year for this annual report, report the following starting on the date specified in 40 CFR 98.446(e): If the well is permitted by an Underground Injection Control program, for each injection well, report: Underground Injection Control permit class.	98.446f13ii				PX							
RR - Geologic Sequestration of Carbon Dioxide	If the date specified in 40 CFR 98.446(e) is during the reporting year for this annual report, report the following starting on the date specified in 40 CFR 98.446(e): If an offshore well is not subject to the Safe Drinking Water Act, for each injection well, report any well identification number and any identification number used for the legal instrument authorizing geologic sequestration.	98.446f14	X										

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			Category											
Subpart		Reporting Section	Identification Information	GHGs Reported	Emission Factors	Unit/ Process Operating Characteristics	Calculation, Test, and Calibration Methods	Production/ Throughput Quantities and Composition	Amount & Composition of Materials Received	Data Elements Reported for Periods of Missing Data That are Related to Production/Throughput or Materials Received	Data Elements Reported for Periods of Missing Data That are Not Related to Production/Throughput or Materials Received	Supplier Customer and Vendor Information	Process Specifc and Vendor Data Submitted in BAMM Extension Requests
Final Confidentiality Determinations			Not CBI	Both	CBI	Both	Not CBI	Both	CBI	CBI	Not CBI	CBI	CBI
UU - Injection of Carbon Dioxide	If you receive CO2 by pipeline, report the following for each receiving flow meter: Total net mass of CO2 received (metric tons) annually. (for facilities without an EPA-approved subpart RR R&D project exemption)	98.476a1						PC					
UU - Injection of Carbon Dioxide	If you receive CO2 by pipeline, report the following for each receiving flow meter: Total net mass of CO2 received (metric tons) annually. (for facilities with an EPA-approved subpart RR R&D project exemption)	98.476a1						PX					
UU - Injection of Carbon Dioxide	If you receive CO2 by pipeline, report the following for each receiving flow meter: If a volumetric flow meter is used to receive CO2: Volumetric flow through a receiving flow meter at standard conditions (standard cubic meters) in each quarter. (for facilities without an EPA-approved subpart RR R&D project exemption)	98.476a2i						PC					
UU - Injection of Carbon Dioxide	If you receive CO2 by pipeline, report the following for each receiving flow meter: If a volumetric flow meter is used to receive CO2: Volumetric flow through a receiving flow meter at standard conditions (standard cubic meters) in each quarter. (for facilities with an EPA-approved subpart RR R&D project exemption)	98.476a2i						PX					
UU - Injection of Carbon Dioxide	If you receive CO2 by pipeline, report the following for each flow meter: If a volumetric flow meter is used to receive CO2: The volumetric flow through a receiving flow meter that is redelivered to another facility without being injected into your well (standard cubic meters) in each quarter. (for facilities without an EPA-approved subpart RR R&D project exemption)	98.476a2ii						PC					
UU - Injection of Carbon Dioxide	If you receive CO2 by pipeline, report the following for each flow meter: If a volumetric flow meter is used to receive CO2: The volumetric flow through a receiving flow meter that is redelivered to another facility without being injected into your well (standard cubic meters) in each quarter. (for facilities with an EPA-approved subpart RR R&D project exemption)	98.476a2ii						PX					
UU - Injection of Carbon Dioxide	If you receive CO2 by pipeline, report the following for each receiving flow meter: If a volumetric flow meter is used to receive CO2: CO2 concentration in the flow (volume % CO2 expressed as a decimal fraction) in each quarter. (for facilities without an EPA-approved subpart RR R&D project exemption)	98.476a2iii						PC					
UU - Injection of Carbon Dioxide	If you receive CO2 by pipeline, report the following for each receiving flow meter: If a volumetric flow meter is used to receive CO2: CO2 concentration in the flow (volume % CO2 expressed as a decimal fraction) in each quarter. (for facilities with an EPA-approved subpart RR R&D project exemption)	98.476a2iii						PX					
UU - Injection of Carbon Dioxide	If you receive CO2 by pipeline, report the following for each flow meter: If a mass flow meter is used to receive CO2, report the mass flow through a receiving flow meter (in metric tons) in each quarter. (for facilities without an EPA-approved subpart RR R&D project exemption)	98.476a3i						PC					
UU - Injection of Carbon Dioxide	If you receive CO2 by pipeline, report the following for each flow meter: If a mass flow meter is used to receive CO2, report the mass flow through a receiving flow meter (in metric tons) in each quarter. (for facilities with an EPA-approved subpart RR R&D project exemption)	98.476a3i						PX					
UU - Injection of Carbon Dioxide	If you receive CO2 by pipeline, report the following for each flow meter: If a mass flow meter is used to receive CO2, report the mass flow through a receiving flow meter that is redelivered to another facility without being injected into your well (in metric tons) in each quarter. (for facilities without an EPA-approved subpart RR R&D project exemption)	98.476a3ii						PC					
UU - Injection of Carbon Dioxide	If you receive CO2 by pipeline, report the following for each flow meter: If a mass flow meter is used to receive CO2, report the mass flow through a receiving flow meter that is redelivered to another facility without being injected into your well (in metric tons) in each quarter. (for facilities with an EPA-approved subpart RR R&D project exemption)	98.476a3ii						PX					

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			Category											
Subpart		Reporting Section	Identification Information	GHGs Reported	Emission Factors	Unit/ Process Operating Characteristics	Calculation, Test, and Calibration Methods	Production/ Throughput Quantities and Composition	Amount & Composition of Materials Received	Data Elements Reported for Periods of Missing Data That are Related to Production/Throughput or Materials Received	Data Elements Reported for Periods of Missing Data That are Not Related to Production/Throughput or Materials Received	Supplier Customer and Vendor Information	Process Specifc and Vendor Data Submitted in BAMM Extension Requests
Final Confidentiality Determinations			Not CBI	Both	CBI	Both	Not CBI	Both	CBI	CBI	Not CBI	CBI	CBI
UU - Injection of Carbon Dioxide	If you receive CO2 by pipeline, report the following for each flow meter: If a mass flow meter is used to receive CO2, report CO2 concentration in the flow (wt. % CO2 expressed as a decimal fraction) in each quarter. (for facilities without an EPA-approved subpart RR R&D project exemption)	98.476a3iii						PC					
UU - Injection of Carbon Dioxide	If you receive CO2 by pipeline, report the following for each flow meter: If a mass flow meter is used to receive CO2, report CO2 concentration in the flow (wt. % CO2 expressed as a decimal fraction) in each quarter. (for facilities with an EPA-approved subpart RR R&D project exemption)	98.476a3iii						PX					
UU - Injection of Carbon	The standard or method used to calculate each value in 40 CFR 98.476(a)(2) through (a)(3).	98.476a4					X						
UU - Injection of Carbon	Number of times in the reporting year for which substitute data procedures were used to calculate values reported in 40 CFR 98.476(a)(2) through (a)(3).	98.476a5									X		
UU - Injection of Carbon Dioxide	If you receive CO2 by pipeline, report the following for each flow meter: Whether the flow meter is mass or volumetric.	98.476a6					X						
UU - Injection of Carbon Dioxide	If you receive CO2 in containers, report: The mass (metric tons) or volume at standard conditions (standard cubic meters) of contents in containers in each quarter. (for facilities without an EPA-approved subpart RR R&D project exemption)	98.476b1						PC					
UU - Injection of Carbon Dioxide	If you receive CO2 in containers, report: The mass (metric tons) or volume at standard conditions (standard cubic meters) of contents in containers in each quarter. (for facilities with an EPA-approved subpart RR R&D project exemption)	98.476b1						PX					
UU - Injection of Carbon Dioxide	If you receive CO2 in containers, report: The concentration of CO2 of contents in containers (volume or wt. % CO2 expressed as a decimal fraction) in each quarter. (for facilities without an EPA-approved subpart RR R&D project exemption)	98.476b2						PC					
UU - Injection of Carbon Dioxide	If you receive CO2 in containers, report: The concentration of CO2 of contents in containers (volume or wt. % CO2 expressed as a decimal fraction) in each quarter. (for facilities with an EPA-approved subpart RR R&D project exemption)	98.476b2						PX					
UU - Injection of Carbon Dioxide	If you receive CO2 in containers, report: The mass (metric tons) or volume (standard cubic meters) of contents in containers that is redelivered to another facility without being injected into your well in each quarter. (for facilities without an EPA-approved subpart RR R&D project exemption)	98.476b3						PC					
UU - Injection of Carbon Dioxide	If you receive CO2 in containers, report: The mass (metric tons) or volume (standard cubic meters) of contents in containers that is redelivered to another facility without being injected into your well in each quarter. (for facilities with an EPA-approved subpart RR R&D project exemption)	98.476b3						PX					
UU - Injection of Carbon Dioxide	If you receive CO2 in containers, report: The net total mass of CO2 received (metric tons) annually. (for facilities without an EPA-approved subpart RR R&D project exemption)	98.476b4						PC					
UU - Injection of Carbon Dioxide	If you receive CO2 in containers, report: The net total mass of CO2 received (metric tons) annually. (for facilities with an EPA-approved subpart RR R&D project exemption)	98.476b4						PX					
UU - Injection of Carbon Dioxide	If you receive CO2 in containers, report: The standard or method used to calculate each value in paragraphs 40 CFR 98.476(b)(1) and (b)(2).	98.476b5					X						
UU - Injection of Carbon Dioxide	If you receive CO2 in containers, report: The number of times in the reporting year for which substitute data procedures were used to calculate values reported in paragraphs 40 CFR 98.476(b)(1) and (b)(2).	98.476b6									X		
UU - Injection of Carbon Dioxide	If you use more than one receiving flow meter, report the net total mass of CO2 received (metric tons) through all flow meters annually. (for facilities without an EPA-approved subpart RR R&D project exemption)	98.476c						PC					

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PX = assigned in this final rule to a category without a categorical determination and is not CBI
ND = no determination has been made for this data element (case-by-case CBI determination)

			Category										
Subpart		Reporting Section	Identification Information	GHGs Reported	Emission Factors	Unit/ Process Operating Characteristics	Calculation, Test, and Calibration Methods	Production/ Throughput Quantities and Composition	Amount & Composition of Materials Received	Data Elements Reported for Periods of Missing Data That are Related to Production/Throughput or Materials Received	Data Elements Reported for Periods of Missing Data That are Not Related to Production/Throughput or Materials Received	Supplier Customer and Vendor Information	Process Specifc and Vendor Data Submitted in BAMM Extension Requests
Final Confidentiality Determinations			Not CBI	Both	CBI	Both	Not CBI	Both	CBI	CBI	Not CBI	CBI	CBI
UU - Injection of Carbon Dioxide	If you use more than one receiving flow meter, report the net total mass of CO2 received (metric tons) through all flow meters annually. (for facilities with an EPA-approved subpart RR R&D project exemption)	98.476c						PX					
UU - Injection of Carbon Dioxide	Source of the CO2 received according to the following categories: CO2 production wells, electric generating unit, ethanol plant, pulp and paper mill, natural gas processing, gasification operations, other anthropogenic source, discontinued enhanced oil and gas recovery project, unknown.	98.476d(1)-(9)				PX							

Table 3: List of New Inputs for Subparts W, FF, and TT for Which no Determinations Have Been Made

Subpart	Data Element	Reporting Section
W - Petroleum and Natural Gas Systems	Annual quantity of CO2, that was recovered from each acid gas removal unit and transferred outside the facility (metric tons CO2e), under subpart PP of this part.	98.236c3iv
W - Petroleum and Natural Gas Systems	For blowdown vent stack emission source, for each unique physical volume that is blown down more than once during the calendar year: Total number of blowdowns for each unique physical volume in the calendar year (when using Eq W-14A).	98.236c7iA
W - Petroleum and Natural Gas Systems	For wellhead gas-liquid separator with oil throughput greater than or equal to 10 barrels per day, using Calculation Methodology 1 of 40 CFR 98.233(j), report by sub-basin category: Annual CO2 gas quantities that were recovered (metric tons CO2e), for all wellhead gas-liquid separators or storage tanks using Calculation Methodology 1 of §98.233(j).	98.236c8iK
W - Petroleum and Natural Gas Systems	For wellhead gas-liquid separator with oil throughput greater than or equal to 10 barrels per day, using Calculation Methodology 1 of 40 CFR 98.233(j), report by sub-basin category: Annual CH4 gas quantities that were recovered (metric tons CO2e), for all wellhead gas-liquid separators or storage tanks using Calculation Methodology 1 of §98.233(j).	98.236c8iK
W - Petroleum and Natural Gas Systems	For wellhead gas-liquid separator with oil throughput greater than or equal to 10 barrels per day, using Calculation Methodology 2 of 40 CFR 98.233(j), report by sub-basin category: Annual CO2 gas quantities that were recovered (metric tons CO2e), for all wellhead gas-liquid separators or storage tanks using Calculation Methodology 2 of §98.233(j).	98.236c8iK
W - Petroleum and Natural Gas Systems	For wellhead gas-liquid separator with oil throughput greater than or equal to 10 barrels per day, using Calculation Methodology 2 of 40 CFR 98.233(j), report by sub-basin category: Annual CH4 gas quantities that were recovered (metric tons CO2e), for all wellhead gas-liquid separators or storage tanks using Calculation Methodology 2 of §98.233(j).	98.236c8iK
W - Petroleum and Natural Gas Systems	For wells with oil production greater than or equal to 10 barrels per day, using Calculation Methodology 3 and 4 of 40 CFR 98.233(j), report the following by sub-basin category: Annual CO2 gas quantities that were recovered (metric tons CO2e), for Calculation Methodology 3 or 4 of §98.233(j).	98.236c8iiH
W - Petroleum and Natural Gas Systems	For wells with oil production greater than or equal to 10 barrels per day, using Calculation Methodology 3 and 4 of 40 CFR 98.233(j), report the following by sub-basin category: Annual CH4 gas quantities that were recovered (metric tons CO2e), for Calculation Methodology 3 or 4 of §98.233(j).	98.236c8iiH
W - Petroleum and Natural Gas Systems	For wellhead gas-liquid separators and wells with throughput less than 10 barrels per day, using Calculation Methodology 5 of 40 CFR 98.233(j) Equation W-15 of 40 CFR 98.233: Annual CO2 gas quantities that were recovered (metric tons CO2e), at the sub-basin level for Calculation Methodology 5 of §98.233(j).	98.236c8iiiG
W - Petroleum and Natural Gas Systems	For wellhead gas-liquid separators and wells with throughput less than 10 barrels per day, using Calculation Methodology 5 of 40 CFR 98.233(j) Equation W-15 of 40 CFR 98.233: Annual CH4 gas quantities that were recovered (metric tons CO2e), at the sub-basin level for Calculation Methodology 5 of §98.233(j).	98.236c8iiiG
FF- Underground Coal Mines	Moisture content used in Eq. FF-1 and FF-3.	98.326o
FF- Underground Coal Mines	The gaseous organic concentration correction factor used, if Equation FF-9 was required.	98.326o
TT- Industrial Landfills	The methane correction factor (MCF) value used in the calculations.	98.466b4

Table 4: List of Recipe-Specific Data Elements for Subpart I for Which No Determinations Have Been Made

Subpart	Data Element	Reporting Section
I - Electronics Manufacturing	For extension requests for the use of BAMM in 2011 for recipe-specific utilization and by-product formation rates for plasma etching process type: List of specific items of monitoring instrumentation and measuring services for which the request is being made.	98.94a3iiA
I - Electronics Manufacturing	For extension requests for the use of BAMM in 2011 for recipe-specific utilization and by-product formation rates for plasma etching process type: Locations where each piece of monitoring instrumentation will be installed and where each measurement service will be provided.	98.94a3iiA
I - Electronics Manufacturing	For extension requests for the use of BAMM in 2011 for recipe-specific utilization and by-product formation rates for plasma etching process type: Specific rule requirements for which the instrumentation or measurement service is needed.	98.94a3iiA
I - Electronics Manufacturing	For extension requests for the use of BAMM in 2011 for recipe-specific utilization and by-product formation rates for plasma etching process type: Reasons why the needed equipment could not be obtained, installed, or operated or why the needed measurement service could not be provided before December 31, 2011.	98.94a3iiA
I - Electronics Manufacturing	For extension requests for the use of BAMM in 2011 for recipe-specific utilization and by-product formation rates for plasma etching process type: If the reason for the extension is that the equipment cannot be purchased, delivered, or installed before December 31, 2011, include supporting documentation (e.g., date the monitoring equipment was ordered, investigation of alternative suppliers, or the dates by which alternative vendors promised delivery or installation).	98.94a3iiA
I - Electronics Manufacturing	For extension requests for the use of BAMM in 2011 for recipe-specific utilization and by-product formation rates for plasma etching process type: If the reason for the extension is that the equipment cannot be purchased, delivered, or installed before December 31, 2011, include supporting documentation (e.g., backorder notices or unexpected delays or descriptions of actions taken to expedite delivery or installation).	98.94a3iiA
I - Electronics Manufacturing	For extension requests for the use of BAMM in 2011 for recipe-specific utilization and by-product formation rates for plasma etching process type: If the reason for the extension is that service providers were unable to provide necessary measurement services, include supporting documentation demonstrating that these services could not be acquired before December 31, 2011. This documentation must include written correspondence to and from at least three service providers stating that they will not be available to provide the necessary services before December 31, 2011.	98.94a3iiA
I - Electronics Manufacturing	For extension requests for the use of BAMM in 2011 for recipe-specific utilization and by-product formation rates for plasma etching process type: Specific best available monitoring methods that the facility will use in place of the required methods.	98.94a3iiA
I - Electronics Manufacturing	For extension requests for the use of BAMM in 2011 for recipe-specific utilization and by-product formation rates for plasma etching process type: Specific actions the owner or operator will take to comply with monitoring requirements by January 1, 2012.	98.94a3iiB
I - Electronics Manufacturing	Annual emissions of each F-GHG emitted from each individual recipe (including those in a set of similar recipes).	98.96c2
I - Electronics Manufacturing	Recipe-specific utilization rates for each individual recipe (or set of similar recipes).	98.96f1
I - Electronics Manufacturing	Recipe-specific by-product formation rates for each individual recipe (unless recipe is a similar recipe).	98.96f1
I - Electronics Manufacturing	For recipe-specific utilization and by-product formation rates, the film or substrate that was etched/cleaned and the feature type that was etched (may not be reported in 2011, 2012, and 2013).	98.96f2
I - Electronics Manufacturing	Certification that the recipes included in a set of similar recipes are similar as defined in 40 CFR 98.98 (may not be reported in 2011, 2012, and 2013).	98.96f3
I - Electronics Manufacturing	Certification that the measurements for all reported recipe-specific utilization and by-product formation rates and/or facility-specific N2O utilization factors were made using the International SEMATECH #06124825A–ENG (incorporated by reference, see 40 CFR 98.7), or the International SEMATECH #01104197A–XFR (incorporated by reference, see 40 CFR 98.7) if measurements were made prior to January 1, 2007.	98.96f4
I - Electronics Manufacturing	When you use factors for F-GHG process utilization and by-product formation rates other than the defaults provided in Tables I-3, I-4, I-5, I-6, and I-7 and/or N2O utilization factors other than the defaults provided in Table I-8, source of the recipe-specific utilization.	98.96f5
I - Electronics Manufacturing	When you use factors for F-GHG process utilization and by-product formation rates other than the defaults provided in Tables I-3, I-4, I-5, I-6, and I-7 and/or N2O utilization factors other than the defaults provided in Table I-8, source of the recipe specific by-product formation rates.	98.96f5

Table 4: List of Recipe-Specific Data Elements for Subpart I for Which No Determinations Have Been Made		
Subpart	**Data Element**	**Reporting Section**
I - Electronics Manufacturing	Annual amount of each F-GHG consumed for each recipe.	98.96k
I - Electronics Manufacturing	The apportioning factors used to apportion fluorinated GHG and N2O consumption.	98.96l
I - Electronics Manufacturing	Fraction of each F-GHG or N2O fed into a recipe that is fed into tools connected to abatement systems.	98.96n
I - Electronics Manufacturing	Fraction of each F-GHG or N2O destroyed or removed in abatement systems connected to process tools where recipe j is used.	98.96o
I - Electronics Manufacturing	All inputs and calculations used to determine the inputs for Equation I-14 of this subpart.	98.96o
I - Electronics Manufacturing	The tool recipe(s) associated with each abatement system.	98.96p
I - Electronics Manufacturing	All inputs and results of calculations made accounting for the uptime of abatement systems used during the reporting year, in accordance with Equations I-14 and I-15 of this subpart.	98.96q2