MEMORANDUM

To: Docket EPA-HQ-OAR-2009-0924

From: Lisa Grogan-McCulloch, EPA/Climate Change Division and
Ruth Mead and Amanda Baynham, ERG

Date: June 28, 2010

Subject: Data category assignments for reporting elements to be reported under 40 CFR part 98 and its amendments.

EPA published 40 CFR part 98 (Mandatory Greenhouse Gas Reporting) on October 30, 2009 (see 74 FR 56260). Part 98 is designed to collect the information necessary to characterize and quantify greenhouse gas (GHG) emissions from a broad range of industry sectors, and applies to direct emitters of GHGs (e.g., glass manufacturing facilities) and to suppliers of products that when used may result in the release of GHGs into the atmosphere (e.g., fossil fuels and industrial GHGs). Those entities subject to Part 98 are required to submit annual reports that contain not only GHG data, but also the data needed to characterize, quantify, and verify GHG emissions and related information. The specific data required to be reported varies by source category (i.e., Part 98 subpart).

During the development of Part 98, EPA received a number of comments from businesses and other stakeholders regarding their concern that some of the data reported consisted of trade secrets and other confidential business information that, if released to the public, would likely harm their competitive position. To address these concerns, EPA decided to make determinations on the confidentiality of reported data elements through a notice and comment process. As part of this process, EPA grouped Part 98 data elements into 22 different data categories, with each category containing data with similar characteristics. This memorandum describes the different data categories, provides tables listing the data elements included in each data category, and provides EPA's proposed confidentiality determination. For information on the approach taken for making confidentialility determinations and the rationale for the determinations listed in this memorandum, please see the preamble to the *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* (Proposed Confidentiality Determination Notice). A copy of this notice is available on EPA's Web site: http://www.epa.gov/climatechange/emissions/ghgrulemaking.html.

Data Elements Covered by the Proposed Confidentiality Determination Notice

The following data elements are covered in the Proposed Confidentiality Determination Notice:

1. Data elements in 40 CFR part 98 published in 2009 (see 74 FR 56260, October 30, 2009 for the list of subparts finalized in 2009)[1], excluding subpart JJ (Manure management)[2];

2. Data elements from subparts that are being finalized in a separate notice signed concurrently with the Proposed Confidentiality Determination Notice:
    - Subpart T for magnesium production;
    - Subpart FF for fugitive methane emissions from underground coal mines;
    - Subpart TT for industrial waste landfills; and
    - Subpart II for wastewater treatment.

3. Data elements in subparts that have been proposed and are expected to be finalized in 2010, including the following:
    - Re-proposed subpart I for electronics manufacturing (75 FR 18652, April 12, 2010);
    - Re-proposed subpart L for fluorinated gas production (75 FR 18652, April 12, 2010);
    - Re-proposed subpart W for Petroleum and Natural Gas Systems (75 FR 18608, April 12, 2010);
    - Re-proposed subpart DD for electric transmission and distribution equipment use (75 FR 18652, April 12, 2010);
    - Proposed subpart QQ for imports and exports of fluorinated GHGs inside pre-charged equipment and closed-cell foams (75 FR 18652, April 12, 2010);
    - Proposed subpart RR for injection and geologic sequestration of carbon dioxide (75 FR 18576, April 12, 2010); and
    - Proposed subpart SS for electrical equipment manufacture or refurbishment (75 FR 18652, April 12, 2010).

4. Data elements included in the proposed amendments to the reporting requirements in subpart A for reporting of parent company and other ownership information, North American Industrial Classification System (NAICS) codes, and operation of cogeneration units (also known as combined heat and power (CHP) units) (75 FR 18455, April 12, 2010).

5. Data elements included in the proposed Technical Corrections, Clarifying and Other Amendments to Certain Provisions of the Mandatory Greenhouse Gas Reporting Rule (75 FR 33950, June 15, 2010), which include proposed corrections to data reporting requirements in the following subparts in 40 CFR part 98:

[1] This memorandum does not cover data elements reported under the vehicle manufacturing requirements found in 40 CFR parts 86, 87, 89, 90, 94, 1033, 1039, 1042, 1045, 1048, 1051, 1054, and 1065, which were also finalized in the October 30, 2010 Federal Register Notice (74 FR 56260).

[2] Data elements for subpart JJ (Manure Management) are not covered in this memorandum because EPA is not implementing subpart JJ at this time due to a Congressional restriction prohibiting the expenditure of funds for this purpose.

- subpart E, Adipic Acid Production;
- subpart H, Cement Production;
- subpart K, Ferroalloy Production;
- subpart N, Glass Production;
- subpart O, HCFC-22 Production and HFC-23 Destruction;
- subpart P, Hydrogen Production;
- subpart Q, Iron and Steel Production;
- subpart S, Lime Manufacturing;
- subpart V, Nitric Acid Production;
- subpart Z, Phosphoric Acid Production;
- subpart CC, Soda Ash Manufacturing;
- subpart EE, Titanium Dioxide Production;
- subpart GG, Zinc Production;
- subpart HH, Municipal Solid Waste Landfills;
- subpart LL, Suppliers of Coal-based Liquid Fuels;
- subpart MM, Suppliers of Petroleum Products; and
- subpart NN, Suppliers of Natural Gas and Natural Gas Liquids.

There are more than 1,500 individual data elements to be reported under Part 98. Most of the data elements are to be reported in annual reports submitted to EPA by March 31 of each year; however, a few data elements are submitted as part of other documents, such as Best Available Monitoring Method (BAMM) extension requests, applications for approval of alternative methods for adipic acid or nitric acid production facilities, and Monitoring, Reporting and Verification (MRV) Plans for Geological Sequestration facilities (see proposed subpart RR, 75 FR 18576, April 12, 2010).

Data Categories

As mentioned above, EPA grouped similar data elements together into data categories. This is because Part 98 and its amendments have over 1,500 data elements and have several different subparts with similar types of data elements. EPA developed a total of 22 distinct data categories, with 11 data categories for the direct emitter source categories and 11 for the supplier source categories. The data elements within a given data category are either the same type of data (e.g., emissions, facility identification information) or have similar characteristics (e.g., are inputs used to calculate emissions). For example, the data category for inputs to equations includes many different types of data elements, such as fuel consumption, product output, and carbon content. These data elements are grouped into a single data category because they all share the characteristic of being used to calculate GHG emissions.

Direct Emitter Data Categories:

The 11 data categories for direct emitters are listed below. These data categories contain data elements reported by facilities that directly emit GHGs to the atmosphere. They include stationary fuel combustion sources that meet the criteria in 40 CFR 98.2(a)(3)) and facilities containing any of the source categories listed in 40 CFR 98.2(a)(1) and (a)(2). For proposed subpart RR (Injection and Geological Sequestration of CO_2) (75 FR 18576, April 12, 2010), only those data elements that are related to GHG emissions to the atmosphere (i.e., emissions from surface equipment and from the leakage of CO_2 from geologic sequestration[3]) are categorized in the direct emitter data categories, while the other data elements from proposed subpart RR that are related to injection and sequestration of CO_2 are categorized under the supplier data categories. For the list of data elements included in each direct emitter data category, see Attachment A, Tables A-1 and A-2 at the end of this memorandum.

- Facility and unit identifier information.
- Emissions.
- Inputs to emission equations.
- Calculation methodology and methodological tier.
- Data elements reported for periods of missing data that are not inputs to emission equations.
- Unit/process "static" characteristics that are not inputs to emission equations.
- Unit/process operating characteristics that are not inputs to emission equations.
- Test and calibration methods.
- Production/throughput data that are not inputs to emission equations.
- Raw materials consumed that are not inputs to emission equations.
- Process-specific and vendor data submitted in BAMM extension requests.

Supplier Data Categories:

The 11 data categories for suppliers are listed below. These data categories contain data elements reported by suppliers of fuels, industrial gases, and CO_2 that meet the criteria in 40 CFR 98.2(a)(4). The supplier data categories also include data elements from proposed subpart QQ for importers and exporters of products that contain GHGs (e.g., pre-charged appliances and foams) and data elements from proposed subpart RR for injection and sequestration of CO_2. In general, the data elements reported by suppliers differ from those reported by direct emitters in that they include the quantities of fuel products or industrial gases supplied into the economy (i.e., through import or U.S. production) or exported to another country, and the estimated GHG emissions that could be released when the fuels are combusted or the industrial gases released. For this reason, EPA developed a separate set of data categories for suppliers. For the list of data

[3] Leakage is defined in proposed subpart RR as the movement of CO_2 from the injection zone to the surface (for example to the atmosphere, indoor air, oceans or surface water) (see 75 FR 18576, April 12, 2010).

elements included in each supplier data category, see Attachment B, Tables B-1 and B-2 at the end of this memorandum.

- GHGs reported.
- Production/throughput quantities and composition.
- Identification information.
- Unit/process operating characteristics.
- Calculation, test, and calibration methods.
- Data elements reported for periods of missing data that are not related to production/throughput or materials received.
- Emission factors.
- Amount and composition of materials received.
- Data elements reported for periods of missing data that are related to production/throughput or materials received.
- Supplier customer and vendor information.
- Process-specific and vendor data submitted in BAMM extension requests.

Appendix A

Data Category Assignments for Data Elements in Direct Emitter Source Categories

Table A-1: List of Data Elements in Proposed and Final Direct Emitter Subparts

Table A-2: Direct Emitters: Technical Corrections, Clarifying and Other Amendments to Certain Provisions of the Greenhouse Gas Reporting Rule (75 FR 33950, June 15, 2010)

Table A-1: List of Data Elements in Proposed and Final Direct Emitter Subparts

Footnotes:

[1] This data element is not assigned to a category because the data element refers to a reporting requirement specified under another subpart that has already been assigned to a category under that subpart.

			Category											
Subpart	**Data Element**	**Reporting Section**	**Facility and Unit Identifier Information**	**Inputs to Emission Equations**	**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 Emisison 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 Specifc & Vendor Data Submitted in BAMM Extension Requests**
Proposed Confidentiality Determinations			Emission Data (made available to the public)	Emission Data (made available to the public)	Emission Data (made available to the public)	Not CBI	Not CBI	Emission Data (made available to the public)	Not CBI	CBI	CBI	Emission Data (made available to the public)	CBI
A - General Reporting Requirements	Facility name	98.3c1 & 98.3d3i	X										
A - General Reporting Requirements	Physical street address of the facility including the city, state, and zip code	98.3c1 & 98.3d3i	X										
A - General Reporting Requirements	Year and months covered by the report	98.3c2 & 98.3d3ii	X										
A - General Reporting Requirements	Date of submittal of the report	98.3c3 & 98.3d3iii	X										
A - General Reporting Requirements	Annual emissions (excluding biogenic CO2) aggregated for all GHGs	98.3c4i			X								
A - General Reporting Requirements	Total facility GHG emissions aggregated for all combustion units calculated according to any method specified in 98.333(a) and expressed in metric tons of CO2e	98.3d3iv			X								
A - General Reporting Requirements	Annual emissions of biogenic CO_2	98.3c4ii			X								
A - General Reporting Requirements	Annual emissions of biogenic CO_2	98.3c4iiA			X								
A - General Reporting Requirements	Annual emissions of CO_2 (excluding biogenic CO_2)	98.3c4iiB			X								
A - General Reporting Requirements	Total facility GHG emissions aggregated for all combustion units calculated according to any method specified in 98.333(a) and expressed in metric tons of CO_2	98.3d3iv			X								
A - General Reporting Requirements	Annual emissions of CH_4	98.3c4iiC			X								
A - General Reporting Requirements	Total facility GHG emissions aggregated for all combustion units calculated according to any method specified in 98.333(a) and expressed in metric tons of CH_4	98.3d3iv			X								
A - General Reporting Requirements	Annual emissions of N_2O	98.3c4iiD			X								
A - General Reporting Requirements	Total facility GHG emissions aggregated for all combustion units calculated according to any method specified in 98.333(a) and expressed in metric tons of N_2O	98.3d3iv			X								
A - General Reporting Requirements	Annual emissions of fluorinated GHGs	98.3c4iiE			X								
A - General Reporting Requirements	A written explanation, as required under §98.3(e)	98.3c6						X					
A - General Reporting Requirements	A brief description of each “best available monitoring method” used (see 98.3d)	98.3c7							X				

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			Category										
Subpart	**Data Element**	**Reporting Section**	**Facility and Unit Identifier Information**	**Inputs to Emission Equations**	**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 Emisison 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 Specifc & Vendor Data Submitted in BAMM Extension Requests**
Proposed Confidentiality Determinations			Emission Data (made available to the public)	Emission Data (made available to the public)	Emission Data (made available to the public)	Not CBI	Not CBI	Emission Data (made available to the public)	Not CBI	CBI	CBI	Emission Data (made available to the public)	CBI
A - General Reporting Requirements	Parameter used during the "best available monitoring method" (see 98.3d)	98.3c7						X					
A - General Reporting Requirements	Time period during which the "best available monitoring method" was used" (see 98.3d)	98.3c7						X					
A - General Reporting Requirements	Data elements for which a missing data procedure was used according to the procedures of an applicable subpart	98.3c8										X	
A - General Reporting Requirements	Total number of hours in the year that a missing data procedure was used	98.3c8										X	
A - General Reporting Requirements	A signed and dated certification statement provided by the designated representative of the owner or operator, according to the requirements of §98.4(e)(1)	98.3c9 & 98.3dvi	X										
A - General Reporting Requirements	Any facility operating data or process information used for the GHG emission calculations	98.3d3v		X									
A - General Reporting Requirements	Written explanation for why a change in methodology was required	98.3e						X					
A - General Reporting Requirements	Name of the designated representative	98.4i2	X										
A - General Reporting Requirements	Address of the designated representative	98.4i2	X										
A - General Reporting Requirements	E-mail address of the designated representative	98.4i2	X										
A - General Reporting Requirements	Telephone numberof the designated representative	98.4i2	X										
A - General Reporting Requirements	Facsimile transmission numberof the designated representative	98.4i2	X										
A - General Reporting Requirements	Name of the alternate designated representative	98.4i2	X										
A - General Reporting Requirements	Address of the alternate designated representative	98.4i2	X										
A - General Reporting Requirements	E-mail address of the alternate designated representative	98.4i2	X										
A - General Reporting Requirements	Telephone number of the alternate designated representative	98.4i2	X										
A - General Reporting Requirements	Facsimile transmission number of the alternate designated representative	98.4i2	X										
A - General Reporting Requirements	A list of the owners and operators of the facility	98.4i3	X										
A - General Reporting Requirements	Certification statements in 98.4(i)(4)	98.4i4	X										

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			Category											
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Proposed Confidentiality Determinations			Emission Data (made available to the public)	Emission Data (made available to the public)	Emission Data (made available to the public)	Not CBI	Not CBI	Emission Data (made available to the public)	Not CBI	CBI	CBI	Emission Data (made available to the public)	CBI
A - General Reporting Requirements	Signature of the designated representative and date signed	98.4i5	X										
A - General Reporting Requirements	Signature of the alternate designated representative (if any) and date signed	98.4i5	X										
A - BAMM Extension Request	Name of person to contact about the request	98.3d2iiA	X										
A - BAMM Extension Request	Address of contact person	98.3d2iiA	X										
A - BAMM Extension Request	Telephone number of contact person	98.3d2iiA	X										
A - BAMM Extension Request	E-mail address of contact person	98.3d2iiA	X										
A - BAMM Extension Request	Date request was signed	98.3d2iiA	X										
A - BAMM Extension Request	Date request was submitted	98.3d2iiA	X										
A - BAMM Extension Request	Facility name	98.3d2iiA	X										
A - BAMM Extension Request	Physical address of facility	98.3d2iiA	X										
A - BAMM Extension Request	Unit or group ID	98.3d2iiA	X										
A - BAMM Extension Request	Common pipe or common stack ID	98.3d2iiA	X										
A - BAMM Extension Request	Type of unit (e.g., boiler, process heater, cement kiln)	98.3d2iiA	X										
A - BAMM Extension Request	Total number of units included in application	98.3d2iiA	X										
A - BAMM Extension Request	Description of monitoring equipment (e.g., liquid flow meter)	98.3d2iiA	X										
A - BAMM Extension Request	Parameter for which instrumentation is needed (e.g., fuel combusted)	98.3d2iiA						X					
A - BAMM Extension Request	Rule subpart that requires monitoring of parameter	98.3d2iiB						X					
A - BAMM Extension Request	Rule citation that requires monitoring of parameter	98.3d2iiB						X					
A - BAMM Extension Request	Location of unit with monitor or sampling location (e.g., fuel flow diagram)	98.3d2iiA											X
A - BAMM Extension Request	Reason for the extension request	98.3d2iiC					X						
A - BAMM Extension Request	Date quipment ordered	98.3d2iiD					X						

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Proposed Confidentiality Determinations			Emission Data (made available to the public)	Emission Data (made available to the public)	Emission Data (made available to the public)	Not CBI	Not CBI	Emission Data (made available to the public)	Not CBI	CBI	CBI	Emission Data (made available to the public)	CBI
A - BAMM Extension Request	Information on alternative suppliers and alternative delivery dates investigated	98.3d2iiD											X
A - BAMM Extension Request	Backorder notices or unexpected delays information from supplier	98.3d2iiD					X						
A - BAMM Extension Request	Supporting documentation demonstrating that it is not practicable to isolate the equipment and install monitoring instrument without a full process unit shutdown.	98.3d2iiE											X
A - BAMM Extension Request	Date of the most recent process unit shutdown	98.3d2iiE											X
A - BAMM Extension Request	Frequency of shutdowns for this process unit	98.3d2iiE											X
A - BAMM Extension Request	Date of the next planned shutdown during whichthe monitoring equipment can be installed	98.3d2iiE											X
A - BAMM Extension Request	Was there a shutdown or is there a planned process unit shutdown between October 30, 2009 and April 1, 2010?	98.3d2iiE											X
A - BAMM Extension Request	If planned shutdown occurred between October 30, 2009 and April 1, 2010, explanation of why equipment was not or cannot be obtained and installed during the shutdown	98.3d2iiE					X						
A - BAMM Extension Request	Description of the specific actions the facility will take to obtain and install the equipment as soon as reasonably feasible	98.3d2iiF					X						
A - BAMM Extension Request	Planned installation date.	98.3d2iiF					X						
A - BAMM Extension Request	Anticipated date on which facility will begin using the full monitoring methods in the rule	98.3d2iiF					X						
A - General Reporting Requirements (Proposed Amendments, 75 FR 18455, April 12, 2010)	Primary NAICS Code	98.3c10	X										
A - General Reporting Requirements (Proposed Amendments, 75 FR 18455, April 12, 2010)	Additional NAICS Codes	98.3c10	X										

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			Category											
Subpart	**Data Element**	**Reporting Section**	**Facility and Unit Identifier Information**	**Inputs to Emission Equations**	**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 Emisison 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 Specifc & Vendor Data Submitted in BAMM Extension Requests**
Proposed Confidentiality Determinations			Emission Data (made available to the public)	Emission Data (made available to the public)	Emission Data (made available to the public)	Not CBI	Not CBI	Emission Data (made available to the public)	Not CBI	CBI	CBI	Emission Data (made available to the public)	CBI
A - General Reporting Requirements (Proposed Amendments, 75 FR 18455, April 12, 2010)	Legal Name(s) of the highest-level United States parent company(s) as of December 31 of each reporting year.	98.3c10	X										
A - General Reporting Requirements (Proposed Amendments, 75 FR 18455, April 12, 2010)	Physical address(es) of the highest-level United States parent company(s) as of December 31 of each reporting year.	98.3c10	X										
A - General Reporting Requirements (Proposed Amendments, 75 FR 18455, April 12, 2010)	Percentage of ownership interest for each parent company as of December 31 of each reporting year.	98.3c10	X										
A - General Reporting Requirements (Proposed Amendments, 75 FR 18455, April 12, 2010)	Emissions are from cogeneration units (y/n)?	98.3c4v					X						
C - Stationary Combustion	Unit ID number	98.36b1	X										
C - Stationary Combustion	Code representing the type of unit	98.36b2	X										
C - Stationary Combustion	Maximum rated heat input capacity of the unit	98.36b3						X					
C - Stationary Combustion	Types of fuel combusted during the report year.	98.36b4						X					
C - Stationary Combustion	Tier used to calculate the CO_2 emissions	98.36b5						X					
C - Stationary Combustion	CO_2 emissions (CO_2e)	98.36b6			X								
C - Stationary Combustion	CH_4 emissions	98.36b6			X								
C - Stationary Combustion	CH4 emissions (CO_2e)	98.36b6			X								
C - Stationary Combustion	N_2O emissions	98.36b6			X								
C - Stationary Combustion	N2O emissions (CO_2e)	98.36b6			X								
C - Stationary Combustion	Annual CO_2 emissions	98.36b7i			X								

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			Category											
Subpart	Data Element	Reporting Section	Facility and Unit Identifier Information	Inputs to Emission Equations	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 Emisison 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 Specifc & Vendor Data Submitted in BAMM Extension Requests
Proposed Confidentiality Determinations			Emission Data (made available to the public)	Emission Data (made available to the public)	Emission Data (made available to the public)	Not CBI	Not CBI	Emission Data (made available to the public)	Not CBI	CBI	CBI	Emission Data (made available to the public)	CBI
C - Stationary Combustion	Annual CO_2 emissions from combustion of fossil fuels	98.36b7ii			X								
C - Stationary Combustion	Annual CO_2 emissions from combustion of biomass fuels	98.36b7ii			X								
C - Stationary Combustion	Annual CH_4 emissions	98.36b7iii			X								
C - Stationary Combustion	Annual CH_4 emissions (CO_2e)	98.36b7iii			X								
C - Stationary Combustion	Annual N_2O emissions	98.36b7iii			X								
C - Stationary Combustion	Annual N_2O emissions (CO_2e)	98.36b7iii			X								
C - Stationary Combustion	Annual CO_2 emissions from sorbent	98.36b8			X								
C - Stationary Combustion	Annual GHG emissions from all fossil fuels burned in the unit	98.36b9			X								
C - Stationary Combustion	Customer meter number	98.36b10	X										
C - Stationary Combustion	Group ID number	98.36c1i	X										
C - Stationary Combustion	Identification number	98.36c1ii	X										
C - Stationary Combustion	Cumulative maximum rated heat input capacity	98.36c1iii				X							
C - Stationary Combustion	Highest maximum rated heat input capacity of any unit in the group	98.36c1iv						X					
C - Stationary Combustion	Each type of fuel combusted in the group of units during the reporting year	98.36c1v						X					
C - Stationary Combustion	CO_2 emissions (CO_2e)	98.36c1vi			X								
C - Stationary Combustion	CH_4 emissions	98.36c1vi			X								
C - Stationary Combustion	CH_4 emissions (CO_2e)	98.36c1vi			X								
C - Stationary Combustion	N_2O emissions	98.36c1vi			X								
C - Stationary Combustion	N_2O emissions (CO_2e)	98.36c1vi			X								
C - Stationary Combustion	Annual CO_2 emissions from combustion of fossil fuels	98.36c1vi			X								
C - Stationary Combustion	Annual CO_2 emissions from combustion of biomass	98.36c1vi			X								

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			Category											
Subpart	**Data Element**	**Reporting Section**	**Facility and Unit Identifier Information**	**Inputs to Emission Equations**	**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 Emisison 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 Specifc & Vendor Data Submitted in BAMM Extension Requests**
Proposed Confidentiality Determinations			Emission Data (made available to the public)	Emission Data (made available to the public)	Emission Data (made available to the public)	Not CBI	Not CBI	Emission Data (made available to the public)	Not CBI	CBI	CBI	Emission Data (made available to the public)	CBI
C - Stationary Combustion	Tier used to calculate the CO_2 mass emissions	98.36c1vii						X					
C - Stationary Combustion	Calculated CO_2 mass emissions from sorbent.	98.36c1viii			X								
C - Stationary Combustion	Annual GHG emissions from all fossil fuels burned in the group	98.36c1ix			X								
C - Stationary Combustion	Common stack or duct identification number, beginning with the prefix “CS”.	98.36c2i	X										
C - Stationary Combustion	Identification numbers of the units sharing the common stack or duct.	98.36c2ii	X										
C - Stationary Combustion	Maximum rated heat input capacity of each unit sharing the common stack or duct	98.36c2iii						X					
C - Stationary Combustion	Each type of Fuel combusted in the units during the year	98.36c2iv					X						
C - Stationary Combustion	The methodology used to calculate the CO_2 mass emissions, i.e., Tier 4	98.36c2v						X					
C - Stationary Combustion	Annual CO_2 mass emissions	98.36c2vi			X								
C - Stationary Combustion	Annual CO_2 emissions from combustion of fossil fuels	98.36c2vi			X								
C - Stationary Combustion	Annual CO_2 emissions from combustion of biomass	98.36c2vi			X								
C - Stationary Combustion	CH_4 emissions	98.36c2vii			X								
C - Stationary Combustion	CH_4 emissions (CO_2e)	98.36c2vii			X								
C - Stationary Combustion	N_2O emissions	98.36c2vii			X								
C - Stationary Combustion	N_2O emissions (CO_2e)	98.36c2vii			X								
C - Stationary Combustion	Annual GHG emissions from all fossil fuels burned in the group	98.36c2viii			X								
C - Stationary Combustion	Common pipe identification number, beginning with the prefix “CP”.	98.36c3i	X										
C - Stationary Combustion	Identification numbers of the units served by the common pipe	98.36c3ii	X										
C - Stationary Combustion	Maximum rated heat input capacity of each unit served by the common pipe	98.36c3iii						X					
C - Stationary Combustion	Fuels combusted in the units during the reporting year	98.36c3iv						X					
C - Stationary Combustion	Methodology used to calculate the CO_2 mass emissions	98.36c3v						X					

Table A-1: List of Data Elements in Proposed and Final Direct Emitter Subparts

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			Category											
Subpart	**Data Element**	**Reporting Section**	**Facility and Unit Identifier Information**	**Inputs to Emission Equations**	**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 Emisison 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 Specifc & Vendor Data Submitted in BAMM Extension Requests**
Proposed Confidentiality Determinations			Emission Data (made available to the public)	Emission Data (made available to the public)	Emission Data (made available to the public)	Not CBI	Not CBI	Emission Data (made available to the public)	Not CBI	CBI	CBI	Emission Data (made available to the public)	CBI
C - Stationary Combustion	Annual CO_2 mass emissions from combustion of all fossil fuels	98.36c3vi			X								
C - Stationary Combustion	Annual CO_2 emissions from combustion of all biomass fuels	98.36c3vi			X								
C - Stationary Combustion	CH_4 emissions	98.36c3vii			X								
C - Stationary Combustion	CH_4 emissions (CO_2e)	98.36c3vii			X								
C - Stationary Combustion	N_2O emissions	98.36c3vii			X								
C - Stationary Combustion	N_2O emissions (CO_2e)	98.36c3vii			X								
C - Stationary Combustion	Annual GHG emissions from all fossil fuels burned in units served by the common pipe	98.36c3viii			X								
C - Stationary Combustion	Unit or stack identification numbers (same unit, common stack, or multiple stack identification numbers that represent the monitored locations (e.g., 1, 2, CS001, MS1A, etc.) that are reported under §75.64 of this chapter.)	98.36d1i	X										
C - Stationary Combustion	CO_2 emissions (CO_2e)	98.36d1ii			X								
C - Stationary Combustion	CH_4 emissions (CO2e)	98.36d1ii			X								
C - Stationary Combustion	N_2O emissions (CO_2e)	98.36d1ii			X								
C - Stationary Combustion	Identification of the Part 75 methodology used to determine the CO_2 mass emissions	98.36d1iii						X					
C - Stationary Combustion	Unit, stack, or pipe ID number (exact same unit, common stack, or multiple stack identification numbers that represent the monitored locations (e.g., 1, 2, CS001, MS1A, etc.) that are reported under §75.64 of this chapter)	98.36d2i	X										
C - Stationary Combustion	Each type of fuel combusted in the unit during the reporting year	98.36d2iiA					X						
C - Stationary Combustion	The methodology used to calculate the CO2 mass emissions for each fuel type	98.36d2iiB						X					
C - Stationary Combustion	A code or flag to indicate whether heat input is calculated according to appendix D to 40 CFR part 75 or 40 CFR 75.19	98.36d2iiC						X					
C - Stationary Combustion	CO2 emissions (CO_2e)	98.36d2iiD			X								

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Subpart	**Data Element**	**Reporting Section**	**Facility and Unit Identifier Information**	**Inputs to Emission Equations**	**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 Emisison 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 Specifc & Vendor Data Submitted in BAMM Extension Requests**
Proposed Confidentiality Determinations			Emission Data (made available to the public)	Emission Data (made available to the public)	Emission Data (made available to the public)	Not CBI	Not CBI	Emission Data (made available to the public)	Not CBI	CBI	CBI	Emission Data (made available to the public)	CBI
C - Stationary Combustion	CH4 emissions (CO_2e)	98.36d2iiD			X								
C - Stationary Combustion	N2O emissions (CO_2e)	98.36d2iiD			X								
C - Stationary Combustion	Fuel combusted during the reporting year.	98.36d2iiiA					X						
C - Stationary Combustion	Methodology used to calculate the CO2 mass emissions.	98.36d2iiiB						X					
C - Stationary Combustion	A code or flag to indicate that the heat input data is derived from CEMS measurements	98.36d2iiiC						X					
C - Stationary Combustion	CO_2 emissions (CO_2e)	98.36d2iiiD			X								
C - Stationary Combustion	CH_4 emissions (CO_2e)	98.36d2iiiD			X								
C - Stationary Combustion	N_2O emissions (CO_2e)	98.36d2iiiD			X								
C - Stationary Combustion	Total quantity of each type of fuel combusted	98.36e2i		X									
C - Stationary Combustion	Total quantity of each type of fuel combusted	98.36e2iiA		X									
C - Stationary Combustion	Frequency of the HHV determinations	98.36e2iiB							X				
C - Stationary Combustion	High heat values used in the CO_2 emissions calculations	98.36e2iiC		X									
C - Stationary Combustion	Date each fuel sample was taken to determine the high heat values used in the CO_2 emissions calculations	98.36e2iiC							X				
C - Stationary Combustion	Total quantity (i.e., pounds) of steam produced from MSW or solid fuel combustion during the year,	98.36e2iiD		X									
C - Stationary Combustion	Ratio of the maximum rate heat input capacity to the design rated steam output capacity of the unit	98.36e2iiD		X									
C - Stationary Combustion	Quantity of each type of fuel combusted	98.36e2ivA		X									
C - Stationary Combustion	Frequency of carbon content determinations	98.36e2ivB							X				
C - Stationary Combustion	Frequency of Molecular weight determinations	98.36e2ivB							X				
C - Stationary Combustion	ALL The carbon content used in the emission calculations (including both valid and substitute data values).	98.36e2ivC		X									

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Subpart	**Data Element**	**Reporting Section**	**Facility and Unit Identifier Information**	**Inputs to Emission Equations**	**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 Emisison 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 Specifc & Vendor Data Submitted in BAMM Extension Requests**
Proposed Confidentiality Determinations			Emission Data (made available to the public)	Emission Data (made available to the public)	Emission Data (made available to the public)	Not CBI	Not CBI	Emission Data (made available to the public)	Not CBI	CBI	CBI	Emission Data (made available to the public)	CBI
C - Stationary Combustion	ALL gas molecular weight values used in the emission calculations (including both valid and substitute data values).	98.36e2ivC		X									
C - Stationary Combustion	Monthly average values for carbon content used in the emission calculations (including both valid and substitute data values).	98.36e2ivC		X									
C - Stationary Combustion	Monthly average values for gas molecular weight values used in the emission calculations (including both valid and substitute data values).	98.36e2ivC		X									
C - Stationary Combustion	Total number of valid carbon content determinations made during the reporting year	98.36e2ivD							X				
C - Stationary Combustion	Total number of valid molecular weight determinations made during the reporting year	98.36e2ivD							X				
C - Stationary Combustion	Total number of substitute data values used for carbon content determinations made during the reporting year	98.36e2ivE										X	
C - Stationary Combustion	Total number of substitute data values used for molecular weight determinations made during the reporting year	98.36e2ivE										X	
C - Stationary Combustion	The total number of source operating hours in the reporting year.	98.36e2viA					X						
C - Stationary Combustion	Cumulative CO_2 mass emissions	98.36e2viB			X								
C - Stationary Combustion	Percentage of source operating hours in which a substitute data value of CO_2 concentration was used in the emissions calculations	98.36e2viC										X	
C - Stationary Combustion	Percentage of source operating hours in which a substitute data value of stack gas flow rate was used in the emissions calculations	98.36e2viC										X	
C - Stationary Combustion	Percentage of source operating hours in which a substitute data value of stack gas moisture content was used in the emissions calculations	98.36e2viC										X	
C - Stationary Combustion	Total amount of sorbent used during the report year	98.36e2viiiA		X									
C - Stationary Combustion	The molecular weight of the sorbent.	98.36e2viiiB		X									
C - Stationary Combustion	The ratio (“R”) in Equation C-11	98.36e2viiiC		X									

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Proposed Confidentiality Determinations			Emission Data (made available to the public)	Emission Data (made available to the public)	Emission Data (made available to the public)	Not CBI	Not CBI	Emission Data (made available to the public)	Not CBI	CBI	CBI	Emission Data (made available to the public)	CBI
C - Stationary Combustion	Annual volume of CO_2 emitted from the combustion of all fuels, i.e., Vtotal	98.36e2ixA			X								
C - Stationary Combustion	Annual volume of CO_2 emitted	98.36e2ixB			X								
C - Stationary Combustion	Annual volume of CO2 emitted from the combustion of fossil fuels	98.36e2ixB			X								
C - Stationary Combustion	Annual volume of CO2 emitted from the combustion of biomass, i.e., Vbio	98.36e2ixC			X								
C - Stationary Combustion	Carbon-based F-factor used in Equation C-13 of this subpart	98.36e2ixD		X									
C - Stationary Combustion	Annual average HHV value used in Equation C-13 o this subpart	98.36e2ixE		X									
C - Stationary Combustion	Total quantity of fossil fuel combusted during the reporting year	98.36e2ixF		X									
C - Stationary Combustion	Annual biogenic CO_2 mass emissions	98.36e2ixG			X								
C - Stationary Combustion	Results of each quarterly sample analysis	98.36e2xA		X									
C - Stationary Combustion	Annual combined biomass and fossil fuel CO2 emissions from MSW combustion	98.36e2xB			X								
C - Stationary Combustion	Vff	98.36e2xC			X								
C - Stationary Combustion	Vtotal	98.36e2xC			X								
C - Stationary Combustion	VMSW	98.36e2xC			X								
C - Stationary Combustion	Annual volume of biogenic CO2 emissions from MSW combustion	98.36e2xD			X								
C - Stationary Combustion	Results of quarterly sample analysis	98.36e2xi		X									
C - Stationary Combustion	Within 30 days of receipt of a written request from the Administrator, submit an explanation of how company records are used to quantify fuel consumption	98.36e3i									X		
C - Stationary Combustion	Within 30 days of receipt of a written request from the Administrator, submit an explanation of how company records are used to quantify fuel consumption	98.36e3ii									X		
C - Stationary Combustion	Within 30 days of receipt of a written request from the Administrator, submit an explanation of how sorbent usage is quantified.	98.36e3iii									X		

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			Category										
Subpart	**Data Element**	**Reporting Section**	**Facility and Unit Identifier Information**	**Inputs to Emission Equations**	**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 Emisison 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 Specifc & Vendor Data Submitted in BAMM Extension Requests**
Proposed Confidentiality Determinations			Emission Data (made available to the public)	Emission Data (made available to the public)	Emission Data (made available to the public)	Not CBI	Not CBI	Emission Data (made available to the public)	Not CBI	CBI	CBI	Emission Data (made available to the public)	CBI
C - Stationary Combustion	Within 30 days of receipt of a written request from the Administrator, submit an explanation of how company records are used to quantify fossil fuel consumption in units that uses CEMS to quantify CO2 emissions and combusts both fossil fuel and biomass.	98.36e3iv									X		
C - Stationary Combustion	Within 30 days of receipt of a written request from the Administrator, submit an explanation of how company records are used to measure steam production, when it is used to calculate CO2 mass emissions under §98.33(a)(2)(iii) or to quantify solid fuel usage under §98.33(c)(3).	98.36e3v									X		
C - Stationary Combustion	Within 30 days of receipt of a written request from the Administrator, submit the verification data and information described in paragraph (e)(2)(iii)(i.e., methods used to determine the HHV for each type of fuel combusted, except where fuel sampling data are received from the fuel supplier).	98.36e4										X	
C - Stationary Combustion	Within 30 days of receipt of a written request from the Administrator, submit the verification data and information described in paragraph (e)(2)(iii) (i.e., the date on which each fuel sample was taken)	98.36e4										X	
C - Stationary Combustion	Within 30 days of receipt of a written request from the Administrator, submit the verification data and information described in paragraph (e)(2)(v)(A): the dates and results of the initial calibrations and periodic recalibrations of the required fuel flow meters.	98.36e4										X	
C - Stationary Combustion	Within 30 days of receipt of a written request from the Administrator, submit the verification data and information described in paragraph (e)(2)(v)(B): the method from §98.34(b) used to make tank drop measurements (if applicable).	98.36e4										X	

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Subpart	**Data Element**	**Reporting Section**	**Facility and Unit Identifier Information**	**Inputs to Emission Equations**	**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 Emisison 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 Specifc & Vendor Data Submitted in BAMM Extension Requests**
Proposed Confidentiality Determinations			Emission Data (made available to the public)	Emission Data (made available to the public)	Emission Data (made available to the public)	Not CBI	Not CBI	Emission Data (made available to the public)	Not CBI	CBI	CBI	Emission Data (made available to the public)	CBI
C - Stationary Combustion	Within 30 days of receipt of a written request from the Administrator, submit the verification data and information described in paragraph (e)(2)(v)(C): The methods used to determine the carbon content for each type of fuel combusted.	98.36e4										X	
C - Stationary Combustion	Within 30 days of receipt of a written request from the Administrator, submit the verification data and information described in paragraph (e)(2)(v)(D): The methods used to calibrate the fuel flow meters.	98.36e4										X	
C - Stationary Combustion	Within 30 days of receipt of a written request from the Administrator, submit the verification data and information described in paragraph (e)(2)(vii)(A): Whether the CEMS certification and quality assurance procedures of part 75 of this chapter, part 60 of this chapter, or an applicable State continuous monitoring program were used.	98.36e4										X	
C - Stationary Combustion	Within 30 days of receipt of a written request from the Administrator, submit the verification data and information described in paragraph (e)(2)(vii)(B): The dates of the initial certification tests of the CEMS.	98.36e4										X	
C - Stationary Combustion	Within 30 days of receipt of a written request from the Administrator, submit the verification data and information described in paragraph (e)(2)(vii)(B): results of the initial certification tests of the CEMS.	98.36e4										X	
C - Stationary Combustion	Within 30 days of receipt of a written request from the Administrator, submit the verification data and information described in paragraph (e)(2)(vii)(C): The dates of the major quality assurance tests performed on the CEMS during the reporting year, i.e., linearity checks, cylinder gas audits, and relative accuracy test audits (RATAs).	98.36e4										X	

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Subpart	**Data Element**	**Reporting Section**	**Facility and Unit Identifier Information**	**Inputs to Emission Equations**	**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 Emisison 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 Specifc & Vendor Data Submitted in BAMM Extension Requests**
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C - Stationary Combustion	Within 30 days of receipt of a written request from the Administrator, submit the verification data and information described in paragraph (e)(2)(vii)(C): the results of the major quality assurance tests performed on the CEMS during the reporting year, i.e., linearity checks, cylinder gas audits, and relative accuracy test audits (RATAs).	98.36e4										X	
D - Electricity Generation	Data reporting requirements specified in §98.36(b)[1]	98.46											
D - Electricity Generation	Data reporting requirements specified in §98.36(c)(2) or (c)(3)[1]	98.46											
E - Adipic Acid Production	Annual process N_2O emissions from adipic acid production	98.56a			X								
E - Adipic Acid Production	Annual adipic acid production	98.56b		X									
E - Adipic Acid Production	Annual adipic acid production during which N2O abatement technology is operating	98.56c		X									
E - Adipic Acid Production	Annual process N_2O emissions that is sold or transferred off site (subpart OO)[1]	98.56d											
E - Adipic Acid Production	Number of abatement technologies	98.56e		X									
E - Adipic Acid Production	Types of abatement technologies used	98.56f				X							
E - Adipic Acid Production	Abatement technology destruction efficiency	98.56g		X									
E - Adipic Acid Production	Abatement utilization factor	98.56h		X									
E - Adipic Acid Production	Number of times in the reporting year that missing data procedures were followed to measure adipic acid production	98.56i										X	
E - Adipic Acid Production	Emissions factor	98.56j1		X									
E - Adipic Acid Production	Test method used for performance test	98.56j2							X				
E - Adipic Acid Production	Production rate per test run during performance test	98.56j3		X									
E - Adipic Acid Production	N_2O concentration per test run during performance test	98.56j4		X									
E - Adipic Acid Production	Volumetric flow rate per test run during performance test	98.56j5		X									

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			Category											
Subpart	**Data Element**	**Reporting Section**	**Facility and Unit Identifier Information**	**Inputs to Emission Equations**	**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 Emisison 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 Specifc & Vendor Data Submitted in BAMM Extension Requests**
Proposed Confidentiality Determinations			Emission Data (made available to the public)	Emission Data (made available to the public)	Emission Data (made available to the public)	Not CBI	Not CBI	Emission Data (made available to the public)	Not CBI	CBI	CBI	Emission Data (made available to the public)	CBI
E - Adipic Acid Production	Number of test runs	98.56j6		X									
E - Adipic Acid Production	Number of times in the reporting year that a performance test had to be repeated	98.56j7					X						
E - Adipic Acid Production	Name of alternative method for determining N_2O concentration	98.56k1						X					
E - Adipic Acid Production	Description of alternative method for determining N_2O concentration	98.56k2						X					
E - Adipic Acid Production	Request date of approval for alternative method for determining N2O concentration	98.56k3						X					
E - Adipic Acid Production	Approval date of alternative method of determining N_2O concentration	98.56k4						X					
F - Aluminum Production	Annual aluminum production	98.66a		X									
F - Aluminum Production	Type of smelter technology used	98.66b						X					
F - Aluminum Production	Perfluoromethane emissions from anode effects	98.66c1			X								
F - Aluminum Production	Perfluoroethane emissions from anode effects	98.66c1			X								
F - Aluminum Production	Anode effect minutes per cell-day (or anode effect overvoltage factor)	98.66c2		X									
F - Aluminum Production	Anode effect frequency (or potline overvoltage)	98.66c2		X									
F - Aluminum Production	Anode effect duration (current efficiency)	98.66c2		X									
F - Aluminum Production	Smelter-specific slope coefficients (or overvoltage emission factors)	98.66c3		X									
F - Aluminum Production	Last date when the smelter-specific-slope coefficients (or overvoltage emission factors) were measured	98.66c3							X				
F - Aluminum Production	Method used to measure the frequency and duration of anode effects (or overvoltage)	98.66d							X				
F - Aluminum Production	Annual anode consumption (No CEMS)	98.66e1		X									
F - Aluminum Production	Annual anode consumption (CEMS)	98.66e1									X		
F - Aluminum Production	Annual CO_2 emissions from the smelter	98.66e2			X								
F - Aluminum Production	Annual paste consumption (No CEMS)	98.66f1		X									
F - Aluminum Production	Annual paste consumption (CEMS)	98.66f1									X		
F - Aluminum Production	Annual CO_2 emissions from the smelter	98.66f2			X								
F - Aluminum Production	Annual smelter-specific inputs to the CO_2 process equations that were used in the calculation	98.66g		X									
G - Ammonia Manufacturing	Tier 4 Calculation Methodology reporting requirements specified under §98.36(e)(2)(vi)[1]	98.76a											

Table A-1: List of Data Elements in Proposed and Final Direct Emitter Subparts

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Subpart	**Data Element**	**Reporting Section**	**Facility and Unit Identifier Information**	**Inputs to Emission Equations**	**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 Emisison 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 Specifc & Vendor Data Submitted in BAMM Extension Requests**
Proposed Confidentiality Determinations			Emission Data (made available to the public)	Emission Data (made available to the public)	Emission Data (made available to the public)	Not CBI	Not CBI	Emission Data (made available to the public)	Not CBI	CBI	CBI	Emission Data (made available to the public)	CBI
G - Ammonia Manufacturing	Annual quantity of feedstock consumed for ammonia manufacturing	98.76a1									X		
G - Ammonia Manufacturing	Method used for determining quantity of feedstock (CEMS)	98.76a2							X				
G - Ammonia Manufacturing	Annual CO_2 process emissions	98.76b1			X								
G - Ammonia Manufacturing	Monthly quantity of feedstock consumed for ammonia manufacturing	98.76b2		X									
G - Ammonia Manufacturing	Method used for determining quantity of monthly feedstock used (No CEMS)	98.76b3							X				
G - Ammonia Manufacturing	Indicate whether carbon content for the feedstock for month n is based on reports from the supplier or analysis of carbon content	98.76b4							X				
G - Ammonia Manufacturing	Carbon content test method for month n	98.76b5							X				
G - Ammonia Manufacturing	Sampling analysis results of carbon content of petroleum coke	98.76b6					X						
G - Ammonia Manufacturing	Carbon content of the gaseous feedstock, for month n	98.76b7		X									
G - Ammonia Manufacturing	Molecular weight of the gaseous feedstock	98.76b8		X									
G - Ammonia Manufacturing	Molar volume conversion factor of the gaseous feedstock	98.76b9		X									
G - Ammonia Manufacturing	Carbon content of the liquid feedstock, for month n	98.76b10		X									
G - Ammonia Manufacturing	Carbon content of the solid feedstock, for month n	98.76b11		X									
G - Ammonia Manufacturing	Annual CO_2 emissions associated with the waste recycle stream	98.76b12			X								
G - Ammonia Manufacturing	Carbon content of the waste recycle stream for month n	98.76b13		X									
G - Ammonia Manufacturing	Volume of the waste recycle stream for month n	98.76b14		X									
G - Ammonia Manufacturing	Method used for analyzing carbon content of waste recycle stream	98.76b15							X				
G - Ammonia Manufacturing	Annual urea production	98.76b16								X			
G - Ammonia Manufacturing	Method used to determine urea production	98.76b16							X				
G - Ammonia Manufacturing	Uses of urea produced	98.76b17								X			

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G - Ammonia Manufacturing	Total pounds of synthetic fertilizer produced	98.76c								X			
G - Ammonia Manufacturing	Total nitrogen contained in the synthetic fertilizer	98.76c								X			
H - Cement Production	Tier 4 Calculation Methodology reporting requirements specified under §98.3C[1]	98.86a											
H - Cement Production	Monthly clinker production (CEMS)	98.86a1								X			
H - Cement Production	Monthly cement production (CEMS)	98.86a2								X			
H - Cement Production	Number of kilns (CEMS)	98.86a3				X							
H - Cement Production	Number of operating kilns (CEMS)	98.86a3					X						
H - Cement Production	Kiln identification number (No CEMS)	98.86b1	X										
H - Cement Production	Monthly clinker production (No CEMS)	98.86b2		X									
H - Cement Production	Monthly cement production (No CEMS)	98.86b3								X			
H - Cement Production	Number of kilns (No CEMS)	98.86b4		X									
H - Cement Production	Number of operating kilns (No CEMS)	98.86b4					X						
H - Cement Production	Quarterly quantity of CKD not recycled to the kiln	98.86b5		X									
H - Cement Production	Monthly fraction of total CaO in clinker	98.86b6		X									
H - Cement Production	Monthly fraction of total MgO in clinker	98.86b6		X									
H - Cement Production	Monthly fraction of non-calcined CaO in clinker	98.86b6		X									
H - Cement Production	Monthly fraction of non-calcined MgO in clinker	98.86b6		X									
H - Cement Production	Method used to determine non-calcined CaO in clinker	98.86b7							X				
H - Cement Production	Method used to determine non-calcined MgO in clinker	98.86b7							X				
H - Cement Production	Quarterly fraction of total CaO in CKD not recycled to the kiln	98.86b8		X									
H - Cement Production	Quarterly fraction of total MgO in CKD not recycled to the kiln	98.86b8		X									
H - Cement Production	Quarterly fraction of non-calcined CaO in CKD not recycled to the kiln	98.86b8		X									
H - Cement Production	Quarterly fraction of non-calcined MgO in CKD not recycled to the kiln	98.86b8		X									
H - Cement Production	Method used to determine non-calcined CaO in CKD	98.86b9							X				
H - Cement Production	Method used to determine non-calcined MgO in CKD	98.86b9							X				
H - Cement Production	Monthly kiln-specific clinker CO_2 emission factors	98.86b10		X									
H - Cement Production	Quarterly kiln-specific CKD CO_2 emission factors	98.86b11		X									

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Subpart	**Data Element**	**Reporting Section**	**Facility and Unit Identifier Information**	**Inputs to Emission Equations**	**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 Emisison 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 Specifc & Vendor Data Submitted in BAMM Extension Requests**
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H - Cement Production	Annual organic carbon content of raw materials	98.86b12		X									
H - Cement Production	Annual consumption of raw materials	98.86b13		X									
H - Cement Production	Number of times missing data procedures were used to determine clinker production	98.86b14i										X	
H - Cement Production	Number of times missing data procedures were used to determine carbonate contents of clinker	98.86b14ii										X	
H - Cement Production	Number of times missing data procedures were used to determine non-calcined content of clinker	98.86b14iii										X	
H - Cement Production	Number of times missing data procedures were used to determine CKD not recycled to kiln	98.86b14iv										X	
H - Cement Production	Number of times missing data procedures were used to determine non-calcined content of CKD	98.86b14v										X	
H - Cement Production	Number of times missing data procedures were used to determine organic carbon contents of raw materials	98.86b14vi										X	
H - Cement Production	Number of times missing data procedures were used to determine raw material consumption	98.86b14vii										X	
I - Electronics Manufacturing	Emissions of each fluorinated GHG and N2O emitted from all etching processes.	98.96a			X								
I - Electronics Manufacturing	Emissions of each fluorinated GHG and N2O emitted from all chamber cleaning processes.	98.96a			X								
I - Electronics Manufacturing	Emissions of each fluorinated GHG and N2O emitted from all wafer cleaning processes.	98.96a			X								
I - Electronics Manufacturing	Emissions of each fluorinated GHG and N2O emitted from all chemical vapor deposition processes.	98.96a			X								
I - Electronics Manufacturing	Emissions of each fluorinated GHG and N2O emitted from all heat transfer fluid use.	98.96a			X								
I - Electronics Manufacturing	The method of emissions calculation used in §98.93	98.96b						X					
I - Electronics Manufacturing	Production in terms of substrate surface area.	98.96c								X			
I - Electronics Manufacturing	Emission factors used for process utilization	98.96d		X									
I - Electronics Manufacturing	Emission factors used for by-product formation rates	98.96d		X									

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Proposed Confidentiality Determinations			Emission Data (made available to the public)	Emission Data (made available to the public)	Emission Data (made available to the public)	Not CBI	Not CBI	Emission Data (made available to the public)	Not CBI	CBI	CBI	Emission Data (made available to the public)	CBI
I - Electronics Manufacturing	Source for each factor	98.96d							X				
I - Electronics Manufacturing	Descriptions of individual processes or process categories used to estimate emissions.	98.96e				X							
I - Electronics Manufacturing	Annual gas consumed during the reporting year.	98.96f		X									
I - Electronics Manufacturing	Facility-wide gas-specific heel-factors used.	98.96f		X									
I - Electronics Manufacturing	The apportioning factors (i.e., fractions of each gas fed into each individual process or process category used to calculate fluorinated GHG and N2O emissions)	98.96g		X									
I - Electronics Manufacturing	Description of the engineering model used for apportioning gas usage per §98.94(b).	98.96g						X					
I - Electronics Manufacturing	The independent facility-wide consumption estimate.	98.96g									X		
I - Electronics Manufacturing	Fraction of each gas fed into each process type that is fed into tools with abatement systems.	98.96h		X									
I - Electronics Manufacturing	Description of all abatement systems through which fluorinated GHGs or N2O flow at your facility.	98.96i				X							
I - Electronics Manufacturing	Number of abatement devices of each manufacturer.	98.96i				X							
I - Electronics Manufacturing	Model number of abatement device	98.96i				X							
I - Electronics Manufacturing	Manufacturers' guaranteed destruction or removal efficiencies, if any.	98.96i				X							
I - Electronics Manufacturing	Record of destruction and removal efficiency measurements over its in-use life.	98.96i					X						
I - Electronics Manufacturing	Description of the associated tools and/or processes for which these systems treat exhaust.	98.96i				X							
I - Electronics Manufacturing	Certification that the abatement system is installed, maintained, and operated according to manufacturer specifications.	98.96j1					X						
I - Electronics Manufacturing	Uptime for the reporting period.	98.96j2		X									
I - Electronics Manufacturing	Calculations to determine the uptime for the reporting period.	98.96j2		X									

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I - Electronics Manufacturing	The default destruction or removal efficiency value or properly measured destruction or removal efficiencies to reflect controlled emissions.	98.96j3		X									
I - Electronics Manufacturing	Certication that the abatement systems for which controlled emissions are being reported are specifically designed for fluorinated GHG and N2O abatement.	98.96j4				X							
I - Electronics Manufacturing	A description of the class including the abatement system manufacturer and model number.	98.96j5i				X							
I - Electronics Manufacturing	A description of the class including the fluorinated GHG and N2O in the process effluent stream	98.96j5i								X			
I - Electronics Manufacturing	The total number of systems in that class for the reporting year.	98.96j5ii					X						
I - Electronics Manufacturing	The total number of systems for which destruction or removal efficiency was measured in that class for the reporting year.	98.96j5iii					X						
I - Electronics Manufacturing	A description of the calculation used to determine the class average.	98.96j5iv						X					
I - Electronics Manufacturing	All inputs used to calculate the class average.	98.96j5iv		X									
I - Electronics Manufacturing	A description of method of randomly selecting class members for testing.	98.96j5vi						X					
I - Electronics Manufacturing	Density of F-GHG heat transfer fluid	98.96k		X									
I - Electronics Manufacturing	Inventory of fluorinated heat transfer fluid at end of previous reporting year	98.96k		X									
I - Electronics Manufacturing	Net purchases of fluorinated the heat transfer fluid a the end of the previous reporting year	98.96k		X									
I - Electronics Manufacturing	Total nameplate capacity (charge) of equipment that contains the heat transfer fluid and that is newly installed during the reporting period	98.96k		X									
I - Electronics Manufacturing	Total nameplate capacity (charge) of equipment that contains the heat transfer fluid and that is removed from service during the reporting period.	98.96k		X									
I - Electronics Manufacturing	Inventory of fluorinated heat transfer fluid at the end of current reporting year.	98.96k		X									

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I - Electronics Manufacturing	Amount of fluorinated heat transfer fluid properly recovered, stored, and sent off site for verifiable recycle or destruction during the current reporting year.	98.96k		X									
I - Electronics Manufacturing	Example calculations for N2O emissions.	98.96l						X					
I - Electronics Manufacturing	Example calculations for F-GHG emissions.	98.96l						X					
I - Electronics Manufacturing	Example calculations for heat transfer fluid emissions.	98.96l						X					
K- Ferroalloy Production	Annual ferroalloy product production capacity	98.116a				X							
K- Ferroalloy Production	Annual production by product	98.116b								X			
K- Ferroalloy Production	Total number of EAFS used for production of ferroalloy products	98.116c				X							
K- Ferroalloy Production	Tier 4 Calculation Methodology reporting requirements specified under §98.37[1]	98.116d											
K- Ferroalloy Production	Annual process CO_2 emissions from EAFs used for the production of any ferroalloy (CEMS)	98.116d1			X								
K- Ferroalloy Production	Annual process CH_4 emissions from EAFs used for the production of any ferroalloy (CEMS)	98.116d2			X								
K- Ferroalloy Production	Identification number of EAFs (CEMS)	98.116d3	X										
K- Ferroalloy Production	Annual process CO_2 emissions from EAFs used for the production of any ferroalloy (No CEMS)	98.116e1			X								
K- Ferroalloy Production	Annual process CH_4 emissions from EAFs used for the production of any ferroalloy (No CEMS)	98.116e2			X								
K- Ferroalloy Production	Identification number of EAFs (No CEMS)	98.116e3	X										
K- Ferroalloy Production	Annual material quantity for materials included for the calculation of annual process CO_2 emissions	98.116e4		X									
K- Ferroalloy Production	Annual average of the carbon content determinations for materials included for the calculation of annual process CO_2 emissions	98.116e5		X									
K- Ferroalloy Production	Method used for the determination of carbon content	98.116e6							X				
K- Ferroalloy Production	How monthly mass of carbon-containing inputs and outputs with missing data was determined	98.116e7										X	
K- Ferroalloy Production	Number of months the missing data procedures were used	98.116e7										X	

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L - Fluorinated Gas Production	Chemical identities of the contents of the process or emissions stream(s) analyzed under the initial scoping test of F-GHG at §98.124(a).	98.126a1								X			
L - Fluorinated Gas Production	Location of the process or emissions stream(s) that were analyzed under the initial scoping test of F-GHG at §98.124(a).	98.126a2				X							
L - Fluorinated Gas Production	Function of the process or emissions stream(s) that were analyzed under the initial scoping test of F-GHG at §98.124(a).	98.126a2				X							
L - Fluorinated Gas Production	Annual emissions of each F-GHG by process	98.126a3			X								
L - Fluorinated Gas Production	Annual emissions of each F-GHG for equipment leaks	98.126a3			X								
L - Fluorinated Gas Production	Annual emissions of each F-GHG for the facility	98.126a3			X								
L - Fluorinated Gas Production	Method used to determine the emissions of each F-GHG (i.e., mass balance, process-vent specific emission factor, or process vent-specific emission factor).	98.126a4						X					
L - Fluorinated Gas Production	Total production mass of each F-GHG gas.	98.126a5								X			
L - Fluorinated Gas Production	Chemical formula of each F-GHG gas.	98.126a5								X			
L - Fluorinated Gas Production	Absolute uncertainties calculated under paragraphs §98.123(a)(1) through (a)(4).	98.126b1						X					
L - Fluorinated Gas Production	The data used in calculating the absolute uncertainties, including quantities and their uncertainties.	98.126b1		X									
L - Fluorinated Gas Production	Relative uncertainties calculated under paragraphs §98.123(a)(1) through (a)(4).	98.126b1						X					
L - Fluorinated Gas Production	The data used in calculating the relative uncertainties, including quantities and their uncertainties.	98.126b1		X									
L - Fluorinated Gas Production	Balanced chemical equation describing the reaction used to manufacture the F-GHG product (specifically, the equation that provides the stoichiometric coefficients in Equation L-7).	98.126b2		X									
L - Fluorinated Gas Production	Total mass of each reactant fed into the production process.	98.126b3		X									
L - Fluorinated Gas Production	Chemical formula of each reactant fed into the production process.	98.126b3									X		

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L - Fluorinated Gas Production	Total mass of each reactant permanently removed from the production process	98.126b4		X									
L - Fluorinated Gas Production	Total mass of the F-GHG product removed from the production process and destroyed.	98.126b5		X									
L - Fluorinated Gas Production	Mass of each by-product generated	98.126b6		X									
L - Fluorinated Gas Production	Chemical formula of each by-product generated.	98.126b6								X			
L - Fluorinated Gas Production	Mass of each by-product destroyed at the facility	98.126b7		X									
L - Fluorinated Gas Production	Mass of each by-product recaptured and sent off-site for destruction.	98.126b9		X									
L - Fluorinated Gas Production	Mass of each by-product recaptured for other purposes.	98.126b10		X									
L - Fluorinated Gas Production	The activity used to estimate emissions (e.g., tons of product or tons of reactant consumed) for 98.123(b)(3)	98.126c1		X									
L - Fluorinated Gas Production	Emission factor for each process vent for 98.123(b)(3)	98.126c2		X									
L - Fluorinated Gas Production	Mass of each F-GHG emitted for 98.123(b)(3).	98.126c3			X								
L - Fluorinated Gas Production	The activity used to estimate emissions (e.g., tons of product or tons of reactant consumed) for 98.123(b)(4)	98.126c1		X									
L - Fluorinated Gas Production	Emission factor for each process vent for 98.123(b)(4)	98.126c2		X									
L - Fluorinated Gas Production	Mass of each F-GHG emitted for 98.123(b)(4).	98.126c3			X								
L - Fluorinated Gas Production	Reason the data were missing	98.126d										X	
L - Fluorinated Gas Production	Length of time the data were missing	98.126d										X	
L - Fluorinated Gas Production	Method used to estimate the missing data	98.126d										X	
L - Fluorinated Gas Production	Estimate of the missing data	98.126d										X	

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L - Fluorinated Gas Production	Monitoring results (i.e., continuous monitoring that demonstrates continuous achievement of the destruction efficiency of the device) for the destruction device that are deviations from the monitoring limit set (e.g., parametric monitoring of incinerator temperature, outlet concentration checks, etc.) during the emissions test.	98.126e					X						
L - Fluorinated Gas Production	Destruction efficiency of each destruction unit, determined from the emission test conducted every 5 years.	98.126f1		X									
L - Fluorinated Gas Production	Test methods used to determine the destruction efficiency of each destruction unit	98.126f2							X				
L - Fluorinated Gas Production	Methods used to record the mass of F-GHG destroyed	98.126f3							X				
L - Fluorinated Gas Production	Chemical identity of the F-GHG(s) and surrogates used in the performance test	98.126f4								X			
L - Fluorinated Gas Production	Information on why the surrogate is sufficient to determine DE	98.126f4								X			
L - Fluorinated Gas Production	Name of all applicable federal or state regulations that may apply to the destruction process.	98.126f5				X							
L - Fluorinated Gas Production	A revised report within 60 days of any process change that affects DE or the methods used to record the mass of F-GHGs destroyed.	98.126f6							X				
L - Fluorinated Gas Production	Mass of F-GHG fed into the destruction device	98.126g1		X									
L - Fluorinated Gas Production	Mass of F-GHG emitted from the destruction device	98.126g2			X								
N - Glass Production	Annual quantity of carbonate based-raw material charged (CEMS)	98.146a1									X		
N - Glass Production	Annual quantity of glass produced (CEMS)	98.146a2								X			
N - Glass Production	Annual process emissions of CO_2	98.146b1			X								
N - Glass Production	Annual process emissions of CO_2	98.146b1			X								
N - Glass Production	Annual quantity of carbonate based-raw material charged (No CEMS)	98.146b2		X									
N - Glass Production	Annual quantity of carbonate based-raw material charged (No CEMS)	98.146b2									X		
N - Glass Production	Annual quantity of glass produced (No CEMS)	98.146b3								X			
N - Glass Production	Annual quantity of glass produced (No CEMS)	98.146b3								X			

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Subpart	**Data Element**	**Reporting Section**	**Facility and Unit Identifier Information**	**Inputs to Emission Equations**	**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 Emisison 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 Specifc & Vendor Data Submitted in BAMM Extension Requests**
Proposed Confidentiality Determinations			Emission Data (made available to the public)	Emission Data (made available to the public)	Emission Data (made available to the public)	Not CBI	Not CBI	Emission Data (made available to the public)	Not CBI	CBI	CBI	Emission Data (made available to the public)	CBI
N - Glass Production	Carbonate-based mineral mass fraction of carbonate-based raw material charged to a furnace	98.146b4		X									
N - Glass Production	Date of all tests used to verify the carbonate-based mineral mass fraction charged to a furnace	98.146b5i							X				
N - Glass Production	Method(s) and any variations of all tests used to verify the carbonate-based mineral mass fraction charged to a furnace	98.146b5ii							X				
N - Glass Production	Mass fraction of each sample analyzed for all tests used to verify the carbonate-based mineral mass fraction charged to a furnace	98.146b5iii					X						
N - Glass Production	Fraction of calcination for carbonate-based raw material	98.146b6		X									
N - Glass Production	Method used to determine the fraction of calcination	98.146b7							X				
N - Glass Production	Total number of furnaces	98.146b8		X									
N - Glass Production	Number of times in the reporting year that missing data procedures were followed to measure monthly quantities of carbonate-based raw materials	98.146b9										X	
N - Glass Production	Number of times in the reporting year that missing data procedures were followed to measure mass fraction of the carbonate-based minerals	98.146b9										X	
O- HCFC22 Production and HFC-23 Destruction	Annual mass of HCFC-22 produced	98.156a1								X			
O- HCFC22 Production and HFC-23 Destruction	Loss Factor used to account for the loss of HCFC–22 upstream of the measurement	98.156a2		X									
O- HCFC22 Production and HFC-23 Destruction	Annual mass of reactants fed into the process	98.156a3									X		
O- HCFC22 Production and HFC-23 Destruction	Mass of materials other than HCFC-22 and HFC-23 that occur in more than trace concentrations and that are permanently removed from the process	98.156a4									X		
O- HCFC22 Production and HFC-23 Destruction	Method for tracking startups	98.156a5							X				
O- HCFC22 Production and HFC-23 Destruction	Method for tracking shutdowns	98.156a5							X				
O- HCFC22 Production and HFC-23 Destruction	Method for tracking malfunctions	98.156a5							X				
O- HCFC22 Production and HFC-23 Destruction	HFC-23 generation/emissions during startup	98.156a5			X								

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O- HCFC22 Production and HFC-23 Destruction	HFC-23 generation/emissions during shutdowns	98.156a5			X								
O- HCFC22 Production and HFC-23 Destruction	HFC-23 generation/emissions during malfunctions	98.156a5			X								
O- HCFC22 Production and HFC-23 Destruction	Names of facilities to which any HFC-23 was sent for destruction	98.156a6								X			
O- HCFC22 Production and HFC-23 Destruction	Addresses of facilities to which any HFC-23 was sent for destruction	98.156a6								X			
O- HCFC22 Production and HFC-23 Destruction	Quantities of HFC-23 sent for destruction to other facilities by facility name and address	98.156a6								X			
O- HCFC22 Production and HFC-23 Destruction	Annual mass of the HFC-23 generated	98.156a7		X									
O- HCFC22 Production and HFC-23 Destruction	Annual mass of any HFC-23 sent off site for sale	98.156a8		X									
O- HCFC22 Production and HFC-23 Destruction	Annual mass of any HFC-23 sent off site for destruction	98.156a9		X									
O- HCFC22 Production and HFC-23 Destruction	Mass of HFC-23 in storage at the beginning of the year	98.156a10		X									
O- HCFC22 Production and HFC-23 Destruction	Mass of HFC-23 in storage at the end of the year	98.156a10		X									
O- HCFC22 Production and HFC-23 Destruction	Annual mass of HFC-23 emitted	98.156a11			X								
O- HCFC22 Production and HFC-23 Destruction	Annual mass of HFC-23 emitted from equipment leaks	98.156a12			X								
O- HCFC22 Production and HFC-23 Destruction	Annual mass of HFC-23 emitted from process vents	98.156a13			X								
O- HCFC22 Production and HFC-23 Destruction	Annual mass of HFC-23 fed into the thermal oxidizer	98.156b1		X									
O- HCFC22 Production and HFC-23 Destruction	Annual mass of HFC-23 destroyed	98.156b2		X									
O- HCFC22 Production and HFC-23 Destruction	Annual mass of HFC-23 emitted from the thermal oxidizer	98.156b3			X								
O- HCFC22 Production and HFC-23 Destruction	Flow rate of HFC-23 being fed into the destruction device	98.156c1		X									
O- HCFC22 Production and HFC-23 Destruction	Concentration (mass fraction) of HFC-23 at the outlet of the destruction device	98.156c2		X									
O- HCFC22 Production and HFC-23 Destruction	Flow rate at the outlet of the destruction device	98.156c3		X									
O- HCFC22 Production and HFC-23 Destruction	Emission rate (calculated from the concentration and flow rate)	98.156c4		X									
O- HCFC22 Production and HFC-23 Destruction	(One time report) Destruction efficiency	98.156e1		X									

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O- HCFC22 Production and HFC-23 Destruction	(One time report) Methods used to determine destruction efficiency	98.156e2							X				
O- HCFC22 Production and HFC-23 Destruction	(One time report) Methods used to record the mass of HFC-23 destroyed	98.156e3							X				
O- HCFC22 Production and HFC-23 Destruction	(One time report) Name of other relevant federal or state regulations that may apply to the destruction process	98.156e4				X							
O- HCFC22 Production and HFC-23 Destruction	Changes to one time report	98.156e5					X						
P - Hydrogen Production	Tier 4 Calculation Methodology reporting requirements specified under §98.3c[1]	98.166a1											
P - Hydrogen Production	Unit identification number (CEMS)	98.166a1	X										
P - Hydrogen Production	Annual process CO_2 emissions (CEMS)	98.166a1			X								
P - Hydrogen Production	Annual quantity of hydrogen produced (CEMS)	98.166a2								X			
P - Hydrogen Production	Annual quantity of hydrogen produced (CEMS)	98.166a2								X			
P - Hydrogen Production	Annual quantity of ammonia produced (CEMS)	98.166a3								X			
P - Hydrogen Production	Annual quantity of ammonia produced (CEMS)	98.166a3								X			
P - Hydrogen Production	Unit identification number (No CEMS)	98.166b1	X										
P - Hydrogen Production	Annual process CO_2 emissions (No CEMS)	98.166b1			X								
P - Hydrogen Production	Monthly consumption of fuels by type used for hydrogen production	98.166b2		X									
P - Hydrogen Production	Monthly consumption of feedstocks by type used for hydrogen production	98.166b2		X									
P - Hydrogen Production	Annual quantity of hydrogen produced (No CEMS)	98.166b3								X			
P - Hydrogen Production	Annual quantity of ammonia produced (No CEMS)	98.166b4								X			
P - Hydrogen Production	Monthly analyses of carbon content for fuels used in hydrogen production	98.166b5		X									
P - Hydrogen Production	Monthly analyses of carbon content for feedstocks used in hydrogen production	98.166b5		X									
P - Hydrogen Production	Monthly analyses of the molecular weight of gaseous fuels	98.166b6		X									
P - Hydrogen Production	Monthly analyses of the molecular weight of gaseous feedstocks	98.166b6		X									

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P - Hydrogen Production	Quarterly quantity of CO_2 collected and transferred off site (subpart PP)[1]	98.166c											
P - Hydrogen Production	Annual quantity of carbon other than CO_2 collected and transferred off site	98.166d								X			
Q - Iron and Steel Production	Unit identification number	98.176a	X										
Q - Iron and Steel Production	Annual CO_2 emissions	98.176a			X								
Q - Iron and Steel Production	Annual production quantity for products	98.176b								X			
Q - Iron and Steel Production	Tier 4 Calculation Methodology reporting requirements specified under §98.37[1]	98.176c											
Q - Iron and Steel Production	How emissions were determined, i.e., carbon mass balance or site-specific emission factor method	98.176d						X					
Q - Iron and Steel Production	Carbon content of process inputs to determine CO_2 emissions	98.176e1		X									
Q - Iron and Steel Production	Carbon content of process outputs to determine CO_2 emissions	98.176e1		X									
Q - Iron and Steel Production	Whether the carbon content was determined from information from the supplier or by laboratory analysis	98.176e2							X				
Q - Iron and Steel Production	Method used for carbon content method determination by laboratory analysis	98.176e2							X				
Q - Iron and Steel Production	Annual volume of gaseous fuel of all other process inputs and outputs used to determine CO_2 emissions	98.176e3		X									
Q - Iron and Steel Production	Annual volume of liquid fuel of all other process inputs and outputs used to determine CO_2 emissions	98.176e3		X									
Q - Iron and Steel Production	Annual mass of all other process inputs and outputs used to determine CO_2 emissions	98.176e3		X									
Q - Iron and Steel Production	Molecular weight of gaseous fuels	98.176e4		X									
Q - Iron and Steel Production	How the monthly mass for each process input or output with missing data was determined	98.176e5							X				
Q - Iron and Steel Production	Number of months the missing data procedures were used	98.176e5										X	
Q - Iron and Steel Production	Measured average hourly CO_2 emission rate during the test	98.176f1		X									
Q - Iron and Steel Production	Average hourly feed or production rate	98.176f2		X									

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Q - Iron and Steel Production	Site-specific emission factor	98.176f3		X									
Q - Iron and Steel Production	Annual feed or production rate used to estimate annual CO_2 emissions	98.176f4		X									
R - Lead Production	Relevant information required to be reported under §98.36[1]	98.186a											
R - Lead Production	Identification number of smelting furnaces (CEMS)	98.186a1	X										
R - Lead Production	Annual lead product production capacity (CEMS)	98.186a2				X							
R - Lead Production	Annual production by product (CEMS)	98.186a3								X			
R - Lead Production	Total number of smelting furnaces at facility used for lead production (CEMS)	98.186a4				X							
R - Lead Production	Identification number of smelting furnaces (No CEMS)	98.186b1	X										
R - Lead Production	Annual process CO2 emissions from smelting furnaces (No CEMS)	98.186b2			X								
R - Lead Production	Annual lead product production capacity (No CEMS)	98.186b3				X							
R - Lead Production	Annual lead product production capacity (No CEMS)	98.186b3				X							
R - Lead Production	Annual production by product (No CEMS)	98.186b4								X			
R - Lead Production	Total number of smelting furnaces at facility used for production of lead products (No CEMS)	98.186b5		X									
R - Lead Production	Annual material quantity used for the calculation of annual process CO_2 emissions	98.186b6		X									
R - Lead Production	Annual average of the carbon content determinations for materials used for the calculation of annual process CO_2 emissions	98.186b7		X									
R - Lead Production	Method used for the determination of carbon content of materials	98.186b8							X				
R - Lead Production	How the monthly mass of carbon-containing materials with missing data was determined	98.186b9							X				
R - Lead Production	Number of months the missing data procedures were used	98.186b9										X	
S - Lime Manufacturing	Relevant information required to be reported under §98.36[1]	98.196a											
S - Lime Manufacturing	Method used to determine the quantity of lime sold (CEMS)	98.196a1							X				
S - Lime Manufacturing	Method used to determine the quantity of lime byproduct/waste sold (CEMS)	98.196a2							X				

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Proposed Confidentiality Determinations			Emission Data (made available to the public)	Emission Data (made available to the public)	Emission Data (made available to the public)	Not CBI	Not CBI	Emission Data (made available to the public)	Not CBI	CBI	CBI	Emission Data (made available to the public)	CBI
S - Lime Manufacturing	Beginning of year inventories for lime products (CEMS)	98.196a3								X			
S - Lime Manufacturing	End of year inventories for lime products (CEMS)	98.196a3								X			
S - Lime Manufacturing	Beginning of year inventories for lime byproducts/wastes (CEMS)	98.196a4								X			
S - Lime Manufacturing	End of year inventories for lime byproducts/wastes (CEMS)	98.196a4								X			
S - Lime Manufacturing	Annual amount of lime byproduct/waste sold (CEMS)	98.196a5								X			
S - Lime Manufacturing	Annual amount of lime product sold (CEMS)	98.196a6								X			
S - Lime Manufacturing	Annual amount of lime byproduct/waste not sold (CEMS)	98.196a7								X			
S - Lime Manufacturing	Annual amount of lime product not sold (CEMS)	98.196a8								X			
S - Lime Manufacturing	Annual CO_2 process emissions from kilns	98.196b1			X								
S - Lime Manufacturing	Monthly emission factors for lime types	98.196b2		X									
S - Lime Manufacturing	Monthly emission factors for lime byproduct/waste sold	98.196b3		X									
S - Lime Manufacturing	Standard method used to determine chemical compositions of limes	98.196b4							X				
S - Lime Manufacturing	Standard method used to determine chemical compositions of lime byproduct/wastes	98.196b4							X				
S - Lime Manufacturing	Monthly results of chemical composition analysis of lime products sold	98.196b5								X			
S - Lime Manufacturing	Monthly results of chemical composition analysis of lime byproducts/wastes sold	98.196b5		X									
S - Lime Manufacturing	Annual results of chemical composition analysis of lime byproducts/wastes not sold	98.196b6		X									
S - Lime Manufacturing	Method used to determine the quantity of lime sold (No CEMS)	98.196b7							X				
S - Lime Manufacturing	Monthly amount of lime product sold (No CEMS)	98.196b8		X									
S - Lime Manufacturing	Method used to determine the quantity of lime byproduct/waste sold (No CEMS)	98.196b9							X				
S - Lime Manufacturing	Monthly amount of lime byproduct/waste sold	98.196b10		X									
S - Lime Manufacturing	Annual amount of lime byproduct/waste not sold (No CEMS)	98.196b11		X									
S - Lime Manufacturing	Monthly mass of lime type produced	98.196b12		X									
S - Lime Manufacturing	Beginning of year inventories for lime products (No CEMS)	98.196b13								X			
S - Lime Manufacturing	End of year inventories for lime products (No CEMS)	98.196b13								X			

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Proposed Confidentiality Determinations			Emission Data (made available to the public)	Emission Data (made available to the public)	Emission Data (made available to the public)	Not CBI	Not CBI	Emission Data (made available to the public)	Not CBI	CBI	CBI	Emission Data (made available to the public)	CBI
S - Lime Manufacturing	Beginning of year inventories for lime byproducts/wastes (No CEMS)	98.196a14								X			
S - Lime Manufacturing	End of year inventories for lime byproducts/wastes (No CEMS)	98.196a14								X			
S - Lime Manufacturing	Annual lime production capacity	98.196a15				X							
S - Lime Manufacturing	Number of times in the reporting year that missing data procedures were followed to measure lime production	98.196a16										X	
S - Lime Manufacturing	Number of times in the reporting year that missing data procedures were followed to measure the chemical composition of lime products sold	98.196a16										X	
S - Lime Manufacturing	Indicate whether CO_2 was used on-site	98.196a17					X						
S - Lime Manufacturing	Annual amount of CO_2 captured for use in the on-site process	98.196a17i					X						
S - Lime Manufacturing	Method used to determine the amount of CO_2 captured	98.196a17ii							X				
T - Magnesium Production	Annual emissions of each F-GHG.	98.206a			X								
T - Magnesium Production	Annual emissions of HFC-134a	98.206a			X								
T - Magnesium Production	Annual emissions of Fluorinated keton FK 5-1-12	98.206a			X								
T - Magnesium Production	Annual emissions of carbon dioxide	98.206a			X								
T - Magnesium Production	Annual emissions of any other GHG listed in 98.6.	98.206a			X								
T - Magnesium Production	Type of production process (e.g., primary, secondary, die casting)	98.206b				X							
T - Magnesium Production	Amount of magnesium produced or processed	98.206c								X			
T - Magnesium Production	Cover gas flow rate	98.206d									X		
T - Magnesium Production	Cover gas composition (in % by volume)	98.206d									X		
T - Magnesium Production	Carrier gas flow rate	98.206d									X		
T - Magnesium Production	Carrier gas composition (in % by volume)	98.206d									X		
T - Magnesium Production	Report the length of time data is missing	98.206e										X	
T - Magnesium Production	Method used to estimate emissions when data is missing	98.206e						X					

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T - Magnesium Production	Estimated GHG emissions during periods when data is missing	98.206e			X								
T - Magnesium Production	Annual cover gas usage rate, excluding carrier gas	98.206f									X		
T - Magnesium Production	Explanation of any change greater than 30% in the facilities cover gas usage rate	98.206g					X						
T - Magnesium Production	Description of any new melt protection technologies adopted to account for reduced or increased GHG emissions in any given year.	98.206h				X							
U - Miscellaneous Uses of Carbonate	Annual CO_2 emissions from miscellaneous carbonate use	98.216a			X								
U - Miscellaneous Uses of Carbonate	Annual mass of carbonate consumed	98.216b		X									
U - Miscellaneous Uses of Carbonate	Measurement method used to determine the mass of carbonate	98.216c							X				
U - Miscellaneous Uses of Carbonate	Method used to calculate emissions	98.216d						X					
U - Miscellaneous Uses of Carbonate	Annual carbonate consumption	98.216e1		X									
U - Miscellaneous Uses of Carbonate	Annual calcination fractions used in calculations	98.216e2		X									
U - Miscellaneous Uses of Carbonate	Method used to determine the calcination fraction	98.216e3							X				
U - Miscellaneous Uses of Carbonate	Annual carbonate input	98.216f1		X									
U - Miscellaneous Uses of Carbonate	Annual carbonate output	98.216f2		X									
U - Miscellaneous Uses of Carbonate	Number of times in the reporting year that missing data procedures were followed to measure carbonate consumption	98.216g										X	
U - Miscellaneous Uses of Carbonate	Number of times in the reporting year that missing data procedures were followed to measure carbonate input	98.216g										X	
U - Miscellaneous Uses of Carbonate	Number of times in the reporting year that missing data procedures were followed to measure carbonate output	98.216g										X	
V - Nitric Acid Production	Train identification number	98.226a	X										
V - Nitric Acid Production	Annual process N_2O emissions	98.226b			X								
V - Nitric Acid Production	Annual nitric acid production	98.226c		X									

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V - Nitric Acid Production	Annual nitric acid production during which N_2O abatement technology is operating	98.226d		X									
V - Nitric Acid Production	Annual nitric acid production from the nitric acid facility	98.226e								X			
V - Nitric Acid Production	Number of nitric acid trains	98.226f		X									
V - Nitric Acid Production	Number of abatement technologies	98.226g				X							
V - Nitric Acid Production	Abatement technologies used	98.226h				X							
V - Nitric Acid Production	Abatement technology destruction efficiency	98.226i		X									
V - Nitric Acid Production	Abatement utilization factor	98.226j		X									
V - Nitric Acid Production	Type of nitric acid process	98.226k				X							
V - Nitric Acid Production	Number of times in the reporting year that missing data procedures were followed to measure nitric acid production	98.226l										X	
V - Nitric Acid Production	Emission factor calculated	98.226m1		X									
V - Nitric Acid Production	Test method used for performance test	98.226m2							X				
V - Nitric Acid Production	Production rate per test run during performance test	98.226m3		X									
V - Nitric Acid Production	N_2O concentration per test run during performance test	98.226m4		X									
V - Nitric Acid Production	Volumetric flow rate per test run during performance test	98.226m5		X									
V - Nitric Acid Production	Number of test runs during performance test	98.226m6		X									
V - Nitric Acid Production	Number of times in the reporting year that a performance test had to be repeated	98.226m7					X						
V - Nitric Acid Production	Name of alternative method of determining N_2O concentration	98.226n1						X					
V - Nitric Acid Production	Description of alternative method of determining N_2O concentration	98.226n2						X					
V - Nitric Acid Production	Request date of approval for alternative method for determining N_2O concentration	98.226n3						X					
V - Nitric Acid Production	Approval date of alternative method for determining N_2O concentration	98.226n4						X					
V - Nitric Acid Production	Total pounds of synthetic fertilizer produced through fertilizer	98.226o								X			

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V - Nitric Acid Production	Total nitrogen contained in synthetic fertilizer	98.226o								X			
W - Petroleum and Natural Gas Systems	Annual emissions from onshore petroleum and natural gas production	98.236a1			X								
W - Petroleum and Natural Gas Systems	Annual emissions from offshore petroleum and natural gas production	98.236a2			X								
W - Petroleum and Natural Gas Systems	Annual emissions from onshore natural gas processing	98.236a3			X								
W - Petroleum and Natural Gas Systems	Annual emissions from onshore natural gas transmission compression	98.236a4			X								
W - Petroleum and Natural Gas Systems	Annual emissions from underground natural gas storage	98.236a5			X								
W - Petroleum and Natural Gas Systems	Annual emissions from LNG storage	98.236a6			X								
W - Petroleum and Natural Gas Systems	Annual emissions from LNG import and export	98.236a7			X								
W - Petroleum and Natural Gas Systems	Annual emissions from natural gas distribution	98.236a8			X								
W - Petroleum and Natural Gas Systems	Annual emissions from standby equipment (report separately)	98.236b			X								
W - Petroleum and Natural Gas Systems	Count of natural gas pneumatic high bleed devices	98.236c1				X							
W - Petroleum and Natural Gas Systems	Count of natural gas pneumatic low bleed devices	98.236c2		X									
W - Petroleum and Natural Gas Systems	Count of natural gas driven pneumatic pumps	98.236c3				X							
W - Petroleum and Natural Gas Systems	Volume of natural gas flow into the acid gas removal unit	98.236c4i		X									
W - Petroleum and Natural Gas Systems	volume of natural gas flow out of the acid gas removal unit	98.236c4ii		X									
W - Petroleum and Natural Gas Systems	Volume weighted CO2 content of natural gas into the acid gas removal unit	98.236c4iii		X									
W - Petroleum and Natural Gas Systems	Glycol dehydrator feed natural gas flow rate	98.236c5iA		X									
W - Petroleum and Natural Gas Systems	Glycol dehydrator absorbent circulation pump type	98.236c5iB		X									
W - Petroleum and Natural Gas Systems	Glycol dehydrator absorbent circulation rate	98.236c5iC		X									
W - Petroleum and Natural Gas Systems	Whether stripper gas is used in glycol dehydrator	98.236c5iD		X									
W - Petroleum and Natural Gas Systems	Whether a flash tank separator is used in glycol dehydrator	98.236c5iE		X									

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W - Petroleum and Natural Gas Systems	Number of desiccant dehydrators operated	98.236c5iiA				X							
W - Petroleum and Natural Gas Systems	Count of wells vented to the atmosphere for liquids unloading for each field in the basin	98.236c6					X						
W - Petroleum and Natural Gas Systems	Count of wells venting during well completions	98.236c7					X						
W - Petroleum and Natural Gas Systems	Number of conventional completions	98.236c7i					X						
W - Petroleum and Natural Gas Systems	Number of completions involving hydraulic fracturing	98.236c7ii					X						
W - Petroleum and Natural Gas Systems	Count of wells venting during well workovers	98.236c8					X						
W - Petroleum and Natural Gas Systems	Number of conventional well workovers involving well venting to the atmosphere	98.236c8i					X						
W - Petroleum and Natural Gas Systems	Number of unconventional well workovers involving well venting to the atmosphere	98.236c8ii					X						
W - Petroleum and Natural Gas Systems	Type of compressor whether reciprocating or centrifugal	98.236c9i				X							
W - Petroleum and Natural Gas Systems	Compressor capacity in horse power	98.236c9ii				X							
W - Petroleum and Natural Gas Systems	Volume of gas between isolation valves	98.236c9iii		X									
W - Petroleum and Natural Gas Systems	Number of blowdowns per year	98.236c9iv		X									
W - Petroleum and Natural Gas Systems	Immediate upstream separator temperature	98.236c10i		X									
W - Petroleum and Natural Gas Systems	Immediate upstream separator pressure	98.236c10i		X									
W - Petroleum and Natural Gas Systems	Sales oil API gravity	98.236c10ii		X									
W - Petroleum and Natural Gas Systems	Estimate of individual tank or tank battery capacity in barrels	98.236c10iii		X									
W - Petroleum and Natural Gas Systems	Oil, hydrocarbon condensate and water sent to tank(s) in barrels	98.236c10iv		X									
W - Petroleum and Natural Gas Systems	Control measure: either vapor recovery system or flaring of tank vapors	98.236c10v				X							
W - Petroleum and Natural Gas Systems	Immediate upstream separator temperature	98.236c11i					X						
W - Petroleum and Natural Gas Systems	Immediate upstream separator pressure	98.236c11i					X						
W - Petroleum and Natural Gas Systems	Sales oil API gravity	98.236c11ii		X									

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W - Petroleum and Natural Gas Systems	Tank capacity in barrels	98.236c11iii				X							
W - Petroleum and Natural Gas Systems	Tank throughput in barrels	98.236c11iv		X									
W - Petroleum and Natural Gas Systems	Control measure: either vapor recovery system or flaring of tank vapors	98.236c11v				X							
W - Petroleum and Natural Gas Systems	Optical gas imaging instrument used	98.236c11vi							X				
W - Petroleum and Natural Gas Systems	Meter used for measuring emissions	98.236c11vii							X				
W - Petroleum and Natural Gas Systems	List of emissions sources routed to the tank	98.236c11viii					X						
W - Petroleum and Natural Gas Systems	Number of wells tested in reporting period	98.236c12i					X						
W - Petroleum and Natural Gas Systems	Average gas to oil ratio for each field	98.236c12ii		X									
W - Petroleum and Natural Gas Systems	Average flow rate during testing for each field	98.236c12iii		X									
W - Petroleum and Natural Gas Systems	Average number of days the well is tested	98.236c12iv		X									
W - Petroleum and Natural Gas Systems	Whether the hydrocarbons produced during testing are vented or flared	98.236c12v				X							
W - Petroleum and Natural Gas Systems	Number of wells venting or flaring associated natural gas in reporting period	98.236c13i					X						
W - Petroleum and Natural Gas Systems	Average gas to oil ratio for each field	98.236c13ii		X									
W - Petroleum and Natural Gas Systems	Average volume of oil produced per well per field.	98.236c13iii		X									
W - Petroleum and Natural Gas Systems	Whether the associated natural gas is vented or flared	98.236c13iv					X						
W - Petroleum and Natural Gas Systems	Whether flare has a continuous flow monitor	98.236c14i							X				
W - Petroleum and Natural Gas Systems	Identify sources of emissions going to the flare	98.236c14ii					X						
W - Petroleum and Natural Gas Systems	Whether flare has a continuous gas analyzer	98.236c14iii							X				
W - Petroleum and Natural Gas Systems	Identify proportion of total natural gas to pure hydrocarbon stream being sent to the flare annually for the reporting period	98.236c14iv		X									
W - Petroleum and Natural Gas Systems	Flare combustion efficiency	98.236c14v		X									
W - Petroleum and Natural Gas Systems	Number of wells being unloaded for liquids in reporting year	98.236c15i					X						

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W - Petroleum and Natural Gas Systems	Average number of unloading(s) per well per reporting year	98.236c15ii					X						
W - Petroleum and Natural Gas Systems	Average volume of natural gas produced per well per reporting year during liquids unloading	98.236c15iii		X									
W - Petroleum and Natural Gas Systems	Number of wells completed (worked over) in reporting year	98.236c16i					X						
W - Petroleum and Natural Gas Systems	Average number of days required for completion (workover)	98.236c16ii					X						
W - Petroleum and Natural Gas Systems	Average volume of natural gas produced per well per reporting year during well completion (workover)	98.236c16iii		X									
W - Petroleum and Natural Gas Systems	Number of wet seals connected to the degassing vent	98.236c17i				X							
W - Petroleum and Natural Gas Systems	Number of compressors whose wet seals are connected to the degassing vent	98.236c17ii				X							
W - Petroleum and Natural Gas Systems	Total throughput of compressors whose wet seals are connected to the degassing vent	98.236c17iii		X									
W - Petroleum and Natural Gas Systems	Type of meter used for making measurements	98.236c17iv							X				
W - Petroleum and Natural Gas Systems	Whether emissions estimate is based on a continuous or one time measurement	98.236c17v							X				
W - Petroleum and Natural Gas Systems	Total time the compressor(s) associated with the degassing vent stack is operating. Sum the hours of operation if multiple compressors are connected to the vent stack	98.236c17vi		X									
W - Petroleum and Natural Gas Systems	Proportion of vent gas recovered for fuel gas or sent to a flare	98.236c17vii		X									
W - Petroleum and Natural Gas Systems	Total throughput of the reciprocating compressor whose rod packing emissions is being reported	98.236c18i		X									
W - Petroleum and Natural Gas Systems	Total time in hours the reciprocating compressor is in operating mode	98.236c18ii		X									
W - Petroleum and Natural Gas Systems	Whether or not the rod packing case is connected to an open ended line	98.236c18iii					X						
W - Petroleum and Natural Gas Systems	Type of device used for measurement emissions	98.236c18iv							X				
W - Petroleum and Natural Gas Systems	The locations from where the emissions from the rod packing are detected	98.236c18v							X				
W - Petroleum and Natural Gas Systems	Component count for each fugitive emissions source	98.236c19i		X									
W - Petroleum and Natural Gas Systems	CH4 in produced natural gas for onshore petroleum and natural gas production	98.236c19ii		X									

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W - Petroleum and Natural Gas Systems	CO2 in produced natural gas for onshore petroleum and natural gas production	98.236c19ii		X									
W - Petroleum and Natural Gas Systems	Pump capacity	98.236c20i				X							
W - Petroleum and Natural Gas Systems	Volume of gas between isolation valves	98.236c20ii		X									
W - Petroleum and Natural Gas Systems	Number of blowdowns per year	98.236c20iii		X									
W - Petroleum and Natural Gas Systems	Supercritical phase EOR injection gas density	98.236c20iv		X									
W - Petroleum and Natural Gas Systems	Volume of crude oil produced	98.236c21i		X									
W - Petroleum and Natural Gas Systems	Volume of produced water produced	98.236c22i		X									
W - Petroleum and Natural Gas Systems	Minimum throughput	98.236d		X									
W - Petroleum and Natural Gas Systems	Maximum throughput	98.236d		X									
W - Petroleum and Natural Gas Systems	Average throughput	98.236d		X									
W - Petroleum and Natural Gas Systems	The number of connected wells, and whether the wells are producing oil, gas, or both	98.236e				X							
W - Petroleum and Natural Gas Systems	Aggregate emissions by source type	98.236fi			X								
W - Petroleum and Natural Gas Systems	Count of drilling rigs	98.236fii				X							
W - Petroleum and Natural Gas Systems	Count of dehydrators	98.236fii				X							
W - Petroleum and Natural Gas Systems	Count of compressors	98.236fii				X							
W - Petroleum and Natural Gas Systems	Count of electrical generators	98.236fii				X							
W - Petroleum and Natural Gas Systems	Count of steam boilers	98.236fii				X							
W - Petroleum and Natural Gas Systems	Count of heaters	98.236fii				X							
X- Petrochemical Production	Petrochemical process unit ID number or other appropriate descriptor (No CEMS)	98.246a1	X										
X- Petrochemical Production	Type of petrochemical produced (No CEMS)	98.246a2								X			
X- Petrochemical Production	Names of other products	98.246a2								X			

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X- Petrochemical Production	Names of carbon-containing feedstocks	98.246a2									X		
X- Petrochemical Production	Annual CO_2 emissions	98.246a3			X								
X- Petrochemical Production	Monthly volume values (used in Equations X-1 to X-3)	98.246a4		X									
X- Petrochemical Production	Monthly mass values (used in Equations X-1 to X-3)	98.246a4		X									
X- Petrochemical Production	Monthly carbon content values (used in Equations X-1 to X-3)	98.246a4		X									
X- Petrochemical Production	Molecular weights for gaseous feedstocks (used in Equation X-1)	98.246a4		X									
X- Petrochemical Production	Molecular weights for gaseous products (used in Equation X-1)	98.246a4		X									
X- Petrochemical Production	Indicate whether you used the alternative to sampling and analysis	98.246a4							X				
X- Petrochemical Production	Annual quantity of petrochemicals produced (No CEMS)	98.246a5		X									
X- Petrochemical Production	Name of each method listed in §98.244 used to determine a measured parameter (or description of manufacturer's recommended method)	98.246a6							X				
X- Petrochemical Production	Calibrations dates of measurement devices	98.246a7							X				
X- Petrochemical Production	Summarized results of the calibrations of measurement devices	98.246a7							X				
X- Petrochemical Production	Identification of combustion units that burned both process off-gas and supplemental fuel	98.246a8					X						
X- Petrochemical Production	Amount of time during which off-specification product was produced	98.246a9								X			
X- Petrochemical Production	Volume or mass of off-specification product produced	98.246a9		X									
X- Petrochemical Production	Date of any process change that reduced the composition to less than 99.5 percent	98.246a9								X			
X- Petrochemical Production	Flow and carbon content of wastewater (Optional)	98.246a10								X			
X- Petrochemical Production	Carbon content of hydrocarbons in fugitive emissions (Optional)	98.246a10					X						
X- Petrochemical Production	Carbon content of hydrocarbons in process vents that are not controlled with a combustion device (Optional)	98.246a10					X						
X- Petrochemical Production	Tier 4 Calculation Methodology reporting requirements specified under §98.36[1]	98.246b1											

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X- Petrochemical Production	Data reporting requirements specified under §98.36(e)(2)(vi) and (vii)[1]	98.246b2											
X- Petrochemical Production	Petrochemical process unit ID or other appropriate descriptor (CEMS)	98.246b3	X										
X- Petrochemical Production	Type of petrochemical produced (CEMS)	98.246b3								X			
X- Petrochemical Production	CO_2 emissions from stacks that handle process vent emissions and emissions from stationary combustion units that burn process off-gas for the petrochemical process units.	98.246b4			X								
X- Petrochemical Production	CO_2 emissions from stacks that handle process vent emissions and emissions from stationary combustion units that burn process off-gas for the petrochemical process units.	98.246b4			X								
X- Petrochemical Production	Estimate of the fraction of fuel energy attributable to process units	98.246b4					X						
X- Petrochemical Production	Estimate of the fraction of emissions attributable to process units	98.246b4			X								
X- Petrochemical Production	CH_4 and N_2O emissions	98.246b5			X								
X- Petrochemical Production	CH_4 and N_2O emissions	98.246b5			X								
X- Petrochemical Production	Cumulative annual heat input (used in Equation C-10)	98.246b5		X									
X- Petrochemical Production	Annual flow of fuels on which the heat input is based	98.246b5		X									
X- Petrochemical Production	ID or other appropriate descriptor of stationary combustion units that burns process off-gas	98.246b6	X										
X- Petrochemical Production	Data reporting requirements specified in §98.256(e) of subpart Y for flares that burn process off-gas[1]	98.246b7											
X- Petrochemical Production	Annual quantity of petrochemicals produced (CEMS)	98.246b8								X			
X- Petrochemical Production	Tier 3 or Tier 4 Calculation Methodology reporting requirements specified under §98.36[1]	98.246c1											
X- Petrochemical Production	Estimate of the fraction of fuel energy attributable to ethylene process units	98.246c1					X						
X- Petrochemical Production	Estimate of the fraction of emissions attributable to ethylene process units	98.246c1			X								

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Subpart	**Data Element**	**Reporting Section**	**Facility and Unit Identifier Information**	**Inputs to Emission Equations**	**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 Emisison 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 Specifc & Vendor Data Submitted in BAMM Extension Requests**
Proposed Confidentiality Determinations			Emission Data (made available to the public)	Emission Data (made available to the public)	Emission Data (made available to the public)	Not CBI	Not CBI	Emission Data (made available to the public)	Not CBI	CBI	CBI	Emission Data (made available to the public)	CBI
X- Petrochemical Production	Data reporting requirements specified in §98.256(e) of subpart Y for flares that burn ethylene process off gas[1]	98.246c2											
X- Petrochemical Production	Name of feedstocks	98.246c3									X		
X- Petrochemical Production	Annual quantity of feedstocks	98.246c3									X		
X- Petrochemical Production	Annual quantity of petrochemicals produced	98.246c4								X			
Y - Petroleum Refineries	Data reporting requirements under Subpart C[1]	98.256a											
Y - Petroleum Refineries	Data reporting requirements under Subpart P[1]	98.256b											
Y - Petroleum Refineries	Flare ID number	98.256e1	X										
Y - Petroleum Refineries	Description of the type of flare	98.256e2				X							
Y - Petroleum Refineries	Description of the flare service	98.256e3					X						
Y - Petroleum Refineries	Calculated CO_2 annual emissions	98.256e4			X								
Y - Petroleum Refineries	Calculated CH_4 annual emissions	98.256e4			X								
Y - Petroleum Refineries	Calculated N_2O annual emissions	98.256e4			X								
Y - Petroleum Refineries	Description of the method used to calculate the CO_2 emissions	98.256e5						X					
Y - Petroleum Refineries	Annual volume of flare gas combusted	98.256e6		X									
Y - Petroleum Refineries	Annual average molecular weight of the flare gas	98.256e6		X									
Y - Petroleum Refineries	Carbon content of the flare gas	98.256e6		X									
Y - Petroleum Refineries	Annual volume of flare gas combusted	98.256e7		X									
Y - Petroleum Refineries	Annual average higher heating value of the flare gas	98.256e7		X									
Y - Petroleum Refineries	Annual volume of flare gas combusted during normal operations	98.256e8		X									
Y - Petroleum Refineries	Annual average higher heating value of the flare gas	98.256e8		X									
Y - Petroleum Refineries	Number of SSM events exceeding 500,000 scf/day	98.256e8		X									

Table A-1: List of Data Elements in Proposed and Final Direct Emitter Subparts

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			Category											
Subpart	**Data Element**	**Reporting Section**	**Facility and Unit Identifier Information**	**Inputs to Emission Equations**	**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 Emisison 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 Specifc & Vendor Data Submitted in BAMM Extension Requests**
Proposed Confidentiality Determinations			Emission Data (made available to the public)	Emission Data (made available to the public)	Emission Data (made available to the public)	Not CBI	Not CBI	Emission Data (made available to the public)	Not CBI	CBI	CBI	Emission Data (made available to the public)	CBI
Y - Petroleum Refineries	Volume of gas flared	98.256e8		X									
Y - Petroleum Refineries	Average molecular weight	98.256e8		X									
Y - Petroleum Refineries	Carbon content of the flare gas	98.256e8		X									
Y - Petroleum Refineries	Fraction of carbon in the flare gas contributed by methane (used in Equation Y-4)	98.256e9		X									
Y - Petroleum Refineries	Basis for the value of the fraction of carbon in the flare gas contributed by methane (used in Equation Y-4) (i.e., select from Daily or more often measurements; Weekly measurements; Periodic (less frequent than weekly) measurements; One-time measurement; Engineering estimate; default (0.4); Other (specify, <200 characters))	98.256e9							X				
Y - Petroleum Refineries	Unit ID number	98.256f1	X										
Y - Petroleum Refineries	Description of the type of unit	98.256f2				X							
Y - Petroleum Refineries	Maximum rated throughput of the unit	98.256f3				X							
Y - Petroleum Refineries	Calculated CO_2 annual emissions	98.256f4			X								
Y - Petroleum Refineries	Calculated CH_4 annual emissions	98.256f4			X								
Y - Petroleum Refineries	Calculated N_2O annual emissions	98.256f4			X								
Y - Petroleum Refineries	Description of the method used to calculate the CO_2 emissions	98.256f5						X					
Y - Petroleum Refineries	Tier 4 Calculation Methodology reporting requirements specified under §98.36(e)(2)(vi)[1]	98.256f6											
Y - Petroleum Refineries	CO_2 annual emissions as measured by the CEMS	98.256f6			X								
Y - Petroleum Refineries	Process CO_2 emissions	98.256f6			X								
Y - Petroleum Refineries	Annual CO_2 emissions associated with fuel combustion reporting requirement under subpart C[3]	98.256f6											
Y - Petroleum Refineries	Annual average exhaust gas flow rate	98.256f7		X									

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			Category											
Subpart	**Data Element**	**Reporting Section**	**Facility and Unit Identifier Information**	**Inputs to Emission Equations**	**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 Emisison 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 Specifc & Vendor Data Submitted in BAMM Extension Requests**
Proposed Confidentiality Determinations			Emission Data (made available to the public)	Emission Data (made available to the public)	Emission Data (made available to the public)	Not CBI	Not CBI	Emission Data (made available to the public)	Not CBI	CBI	CBI	Emission Data (made available to the public)	CBI
Y - Petroleum Refineries	$\%CO_2$	98.256f7		X									
Y - Petroleum Refineries	%CO	98.256f7		X									
Y - Petroleum Refineries	Annual average flow rate of inlet air	98.256f8		X									
Y - Petroleum Refineries	Annual average flow rate of oxygen-enriched air	98.256f8		X									
Y - Petroleum Refineries	$\%O_2$	98.256f8		X									
Y - Petroleum Refineries	$\%O_{oxy}$	98.256f8		X									
Y - Petroleum Refineries	$\%CO_2$	98.256f8		X									
Y - Petroleum Refineries	%CO	98.256f8		X									
Y - Petroleum Refineries	Coke burn-off factor	98.256f9		X									
Y - Petroleum Refineries	Annual throughput of unit	98.256f9		X									
Y - Petroleum Refineries	Average carbon content of coke	98.256f9		X									
Y - Petroleum Refineries	Basis for the average carbon content of coke (i.e., select one of the following Weekly or more often measurements; Periodic (less frequent than weekly) measurements; One-time measurement; Engineering estimate; default (0.94))	98.256f9							X				
Y - Petroleum Refineries	Indicate whether you use a measured value, a unit-specific emission factor, or a default emission factor for CH_4 emissions	98.256f10						X					
Y - Petroleum Refineries	Units of measure for the unit-specific CH_4 emission factor	98.256f10		X									
Y - Petroleum Refineries	Activity data for calculating emissions	98.256f10		X									
Y - Petroleum Refineries	Basis for the unit-specific CH_4 emission factor (i.e., select from Average of multiple source tests; Single source test within last 5 years; Single source test more than 5 years ago; Source test of identical unit at same facility)	98.256f10							X				
Y - Petroleum Refineries	Indicate whether you use a measured value, a unit-specific emission factor, or a default emission factor for N_2O emissions	98.256f11						X					

Table A-1: List of Data Elements in Proposed and Final Direct Emitter Subparts

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			Category											
Subpart	**Data Element**	**Reporting Section**	**Facility and Unit Identifier Information**	**Inputs to Emission Equations**	**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 Emisison 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 Specifc & Vendor Data Submitted in BAMM Extension Requests**
Proposed Confidentiality Determinations			Emission Data (made available to the public)	Emission Data (made available to the public)	Emission Data (made available to the public)	Not CBI	Not CBI	Emission Data (made available to the public)	Not CBI	CBI	CBI	Emission Data (made available to the public)	CBI
Y - Petroleum Refineries	Units of measure for the unit-specific N_2O emission factor	98.256f11		X									
Y - Petroleum Refineries	Activity data for calculating emissions	98.256f11		X									
Y - Petroleum Refineries	Basis for the unit-specific N_2O emission factor (i.e., select from Average of multiple source tests; Single source test within last 5 years; Single source test more than 5 years ago; Source test of identical unit at same facility)	98.256f11							X				
Y - Petroleum Refineries	Number of regeneration cycles during the reporting year	98.256f12		X									
Y - Petroleum Refineries	Average coke burn-off quantity per cycle	98.256f12		X									
Y - Petroleum Refineries	Average carbon content of coke	98.256f12		X									
Y - Petroleum Refineries	Unit ID number	98.256g1	X										
Y - Petroleum Refineries	Description of the type of unit	98.256g2				X							
Y - Petroleum Refineries	Maximum rated throughput	98.256g3						X					
Y - Petroleum Refineries	Indicate whether the GHG emissions from the low heat value gas are accounted for in Subpart C of this part or §98.253(c)	98.256g4						X					
Y - Petroleum Refineries	Annual CO_2 emissions	98.256g5			X								
Y - Petroleum Refineries	Annual CH_4 emissions	98.256g5			X								
Y - Petroleum Refineries	Annual N_2O emissions	98.256g5			X								
Y - Petroleum Refineries	Annual average exhaust gas flow rate	98.256g5 (98.256f7)		X									
Y - Petroleum Refineries	$\%CO_2$	98.256g5 (98.256f7)		X									
Y - Petroleum Refineries	%CO	98.256g5 (98.256f7)		X									
Y - Petroleum Refineries	Annual average flow rate of inlet air	98.256g5 (98.256f8)		X									
Y - Petroleum Refineries	Annual average flow rate of oxygen-enriched air	98.256g5 (98.256f8)		X									
Y - Petroleum Refineries	$\%O_2$	98.256g5 (98.256f8)		X									

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			Category											
Subpart	**Data Element**	**Reporting Section**	**Facility and Unit Identifier Information**	**Inputs to Emission Equations**	**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 Emisison 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 Specifc & Vendor Data Submitted in BAMM Extension Requests**
Proposed Confidentiality Determinations			Emission Data (made available to the public)	Emission Data (made available to the public)	Emission Data (made available to the public)	Not CBI	Not CBI	Emission Data (made available to the public)	Not CBI	CBI	CBI	Emission Data (made available to the public)	CBI
Y - Petroleum Refineries	$\%O_{oxy}$	98.256g5 (98.256f8)		X									
Y - Petroleum Refineries	$\%CO_2$	98.256g5 (98.256f8)		X									
Y - Petroleum Refineries	%CO	98.256g5 (98.256f8)		X									
Y - Petroleum Refineries	Coke burn-off factor	98.256g5 (98.256f9)		X									
Y - Petroleum Refineries	Annual throughput of unit	98.256g5 (98.256f9)		X									
Y - Petroleum Refineries	Average carbon content of coke	98.256g5 (98.256f9)		X									
Y - Petroleum Refineries	Basis for the average carbon content of coke (i.e., select from Weekly or more often measurements; Periodic (less frequent than weekly) measurements; One-time measurement; Engineering estimate; Default factor)	98.256g5 (98.256f9)							X				
Y - Petroleum Refineries	Indicate whether you use a measured value, a unit-specific emission factor, or a default emission factor for CH4 emissions	98.256g5 (98.256f10)						X					
Y - Petroleum Refineries	Units of measure for the unit-specific CH_4 emission factor	98.256g5 (98.256f10)		X									
Y - Petroleum Refineries	Activity data for calculating emissions	98.256g5 (98.256f10)		X									
Y - Petroleum Refineries	Basis for the unit-specific CH_4 emission factor (i.e., select from Average of multiple source tests; Single source test within last 5 years; Single source test more than 5 years ago; Source test of identical unit at same facility)	98.256g5 (98.256f10)							X				
Y - Petroleum Refineries	Indicate whether you use a measured value, a unit-specific emission factor, or a default emission factor for N_2O emissions	98.256g5 (98.256f11)						X					
Y - Petroleum Refineries	Units of measure for the unit-specific N_2O emission factor	98.256g5 (98.256f11)		X									
Y - Petroleum Refineries	Activity data for calculating emissions	98.256g5 (98.256f11)		X									
Y - Petroleum Refineries	Basis for the unit-specific N_2O emission factor (i.e., select from Average of multiple source tests; Single source test within last 5 years; Single source test more than 5 years ago; Source test of identical unit at same facility)	98.256g5 (98.256f11)							X				

Table A-1: List of Data Elements in Proposed and Final Direct Emitter Subparts

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			Category											
Subpart	**Data Element**	**Reporting Section**	**Facility and Unit Identifier Information**	**Inputs to Emission Equations**	**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 Emisison 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 Specifc & Vendor Data Submitted in BAMM Extension Requests**
Proposed Confidentiality Determinations			Emission Data (made available to the public)	Emission Data (made available to the public)	Emission Data (made available to the public)	Not CBI	Not CBI	Emission Data (made available to the public)	Not CBI	CBI	CBI	Emission Data (made available to the public)	CBI
Y - Petroleum Refineries	Plant ID number	98.256h1	X										
Y - Petroleum Refineries	Maximum rated throughput	98.256h2				X							
Y - Petroleum Refineries	Calculated CO_2 annual emissions	98.256h3			X								
Y - Petroleum Refineries	Calculated annual CO_2 emissions from sour gas sent off-site for sulfur recovery	98.256h3			X								
Y - Petroleum Refineries	Annual volumetric flow to the sulfur recovery plant	98.256h4		X									
Y - Petroleum Refineries	Annual average mole fraction of carbon in the sour gas	98.256h4		X									
Y - Petroleum Refineries	Indicate whether the recycled flow rate and carbon content are included in the measured data	98.256h5						X					
Y - Petroleum Refineries	Indicate whether a correction for CO_2 emissions in the tail gas was used in Equation Y-12	98.256h5						X					
Y - Petroleum Refineries	Value of the correction	98.256h5		X									
Y - Petroleum Refineries	Annual volume of recycled tail gas	98.256h5		X									
Y - Petroleum Refineries	Annual average mole fraction of carbon in the tail gas	98.256h5		X									
Y - Petroleum Refineries	Indicate whether you used the default (95%) or a unit specific correction	98.256h5						X					
Y - Petroleum Refineries	Approach used	98.256h5						X					
Y - Petroleum Refineries	Tier 4 Calculation Methodology reporting requirements specified under §98.36(e)(2)(vi)[1]	98.256h6											
Y - Petroleum Refineries	CO_2 annual emissions as measured by the CEMS	98.256h6			X								
Y - Petroleum Refineries	Annual process CO_2 emissions	98.256h6			X								
Y - Petroleum Refineries	Annual CO_2 emissions associated with fuel combustion reporting requirement under subpart C[1]	98.265h6											
Y - Petroleum Refineries	Unit ID number	98.256i1	X										
Y - Petroleum Refineries	Maximum rated throughput of the unit	98.256i2				X							

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Subpart	**Data Element**	**Reporting Section**	**Facility and Unit Identifier Information**	**Inputs to Emission Equations**	**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 Emisison 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 Specifc & Vendor Data Submitted in BAMM Extension Requests**
Proposed Confidentiality Determinations			Emission Data (made available to the public)	Emission Data (made available to the public)	Emission Data (made available to the public)	Not CBI	Not CBI	Emission Data (made available to the public)	Not CBI	CBI	CBI	Emission Data (made available to the public)	CBI
Y - Petroleum Refineries	CO_2 annual emissions	98.256i3			X								
Y - Petroleum Refineries	CH_4 annual emissions	98.256i3			X								
Y - Petroleum Refineries	N_2O annual emissions	98.256i3			X								
Y - Petroleum Refineries	Description of the method used to calculate the CO_2 emissions	98.256i4						X					
Y - Petroleum Refineries	Annual mass of green coke fed to the unit	98.256i5		X									
Y - Petroleum Refineries	Carbon content of green coke fed to the unit	98.256i5		X									
Y - Petroleum Refineries	Annual mass of marketable coke produced	98.256i5		X									
Y - Petroleum Refineries	Carbon content of marketable coke produced	98.256i5		X									
Y - Petroleum Refineries	Annual mass of coke dust collected in dust collection systems	98.256i5		X									
Y - Petroleum Refineries	Tier 4 Calculation Methodology reporting requirements specified under §98.36(e)(2)(vi)[1]	98.256i6											
Y - Petroleum Refineries	CO_2 annual emissions as measured by the CEMS	98.256i6			X								
Y - Petroleum Refineries	Annual process CO_2 emissions	98.256i6			X								
Y - Petroleum Refineries	Annual CO_2 emissions associated with fuel combustion reporting requirement under subpart C[1]	98.256i6											
Y - Petroleum Refineries	Indicate whether you use a measured value, a unit-specific emission factor, or a default emission factor for CH_4 emissions	98.256i7						X					
Y - Petroleum Refineries	Units of measure for the unit-specific CH_4 emission factor	98.256i7		X									
Y - Petroleum Refineries	Activity data for calculating emissions	98.256i7		X									
Y - Petroleum Refineries	Basis for the unit-specific CH_4 emission factor (i.e., select from Average of multiple source tests; Single source test within last 5 years; Single source test more than 5 years ago; Source test of identical unit at same facility)	98.256i7							X				
Y - Petroleum Refineries	Site-specific emission factor	98.256i8		X									

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			Category											
Subpart	**Data Element**	**Reporting Section**	**Facility and Unit Identifier Information**	**Inputs to Emission Equations**	**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 Emisison 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 Specifc & Vendor Data Submitted in BAMM Extension Requests**
Proposed Confidentiality Determinations			Emission Data (made available to the public)	Emission Data (made available to the public)	Emission Data (made available to the public)	Not CBI	Not CBI	Emission Data (made available to the public)	Not CBI	CBI	CBI	Emission Data (made available to the public)	CBI
Y - Petroleum Refineries	Basis for the site-specific emission factor (i.e., select from Average of multiple source tests; Single source test within last 5 years; Single source test more than 5 years ago; Source test of identical unit at same facility).	98.256i8							X				
Y - Petroleum Refineries	Unit ID number	98.256j1	X										
Y - Petroleum Refineries	Quantity of asphalt blown	98.256j2		X									
Y - Petroleum Refineries	Type of control device used to reduce methane	98.256j3				X							
Y - Petroleum Refineries	Annual CO_2 emissions	98.256j4			X								
Y - Petroleum Refineries	Annual CH_4 emissions	98.256j4			X								
Y - Petroleum Refineries	CO_2 emission factor	98.256j5		X									
Y - Petroleum Refineries	Basis for the CO_2 emission factor (i.e., select from Weekly or more often measurements; Periodic (less frequent than weekly) measurements; Averge of multiple source tests; One-time source test; Default factor)	98.256j5							X				
Y - Petroleum Refineries	CH_4 emission factor	98.256j6		X									
Y - Petroleum Refineries	Basis for the CH_4 emission factor (i.e., select from Weekly or more often measurements; Periodic (less frequent than weekly) measurements; Averge of multiple source tests; One-time source test; Default factor)	98.256j6							X				
Y - Petroleum Refineries	Carbon emission factor	98.256j7		X									
Y - Petroleum Refineries	Basis for the carbon emission factor (i.e., select from Weekly or more often measurements; Periodic (less frequent than weekly) measurements; Averge of multiple source tests; One-time source test; Default factor)	98.256j7							X				
Y - Petroleum Refineries	CH_4 emission factor	98.256j8		X									

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			Category										
Subpart	**Data Element**	**Reporting Section**	**Facility and Unit Identifier Information**	**Inputs to Emission Equations**	**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 Emisison 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 Specifc & Vendor Data Submitted in BAMM Extension Requests**
Proposed Confidentiality Determinations			Emission Data (made available to the public)	Emission Data (made available to the public)	Emission Data (made available to the public)	Not CBI	Not CBI	Emission Data (made available to the public)	Not CBI	CBI	CBI	Emission Data (made available to the public)	CBI
Y - Petroleum Refineries	Basis for the CH_4 emission factor (.e., select from Weekly or more often measurements; Periodic (less frequent than weekly) measurements; Averge of multiple source tests; One-time source test; Default factor)	98.256j8							X				
Y - Petroleum Refineries	Cumulative annual CH_4 emissions	98.256k1			X								
Y - Petroleum Refineries	Description of the method used to calculate the CH_4 emissions	98.256k2						X					
Y - Petroleum Refineries	Total number of delayed coking units	98.256k3		X									
Y - Petroleum Refineries	Total number of delayed coking drums	98.256k3		X									
Y - Petroleum Refineries	Dimensions of coke drum or vessel	98.256k3		X									
Y - Petroleum Refineries	Typical gauge pressure of the coking drum when first vented to the atmosphere	98.256k3		X									
Y - Petroleum Refineries	Typical void fraction of coke drum or vessel	98.256k3		X									
Y - Petroleum Refineries	Typical drum outage of coke drum or vessel	98.256k3		X									
Y - Petroleum Refineries	Annual number of coke-cutting cycles of coke drum or vessel	98.256k3		X									
Y - Petroleum Refineries	Number of coking drums in the set	98.256k4		X									
Y - Petroleum Refineries	Height and diameter of the coke drums	98.256k4		X									
Y - Petroleum Refineries	Cumulative number of vessel openings for all delayed coking drums in the set	98.256k4		X									
Y - Petroleum Refineries	Typical venting pressure	98.256k4		X									
Y - Petroleum Refineries	Void fraction	98.256k4		X									
Y - Petroleum Refineries	Mole fraction of methane in coking gas	98.256k4		X									
Y - Petroleum Refineries	Vent ID number	98.256l1	X										
Y - Petroleum Refineries	Unit or operation associated with the emissions	98.256l2				X							
Y - Petroleum Refineries	Type of control device used to reduce CH_4 emissions from the unit	98.256l3				X							
Y - Petroleum Refineries	Calculated annual CO_2 emissions	98.256l4			X								

Table A-1: List of Data Elements in Proposed and Final Direct Emitter Subparts

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			Category											
Subpart	**Data Element**	**Reporting Section**	**Facility and Unit Identifier Information**	**Inputs to Emission Equations**	**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 Emisison 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 Specifc & Vendor Data Submitted in BAMM Extension Requests**
Proposed Confidentiality Determinations			Emission Data (made available to the public)	Emission Data (made available to the public)	Emission Data (made available to the public)	Not CBI	Not CBI	Emission Data (made available to the public)	Not CBI	CBI	CBI	Emission Data (made available to the public)	CBI
Y - Petroleum Refineries	Calculated annual CH_4 emissions	98.256l4			X								
Y - Petroleum Refineries	Calculated annual N_2O emissions	98.256l4			X								
Y - Petroleum Refineries	Annual volumetric flow discharged to the atmosphere	98.256l5		X									
Y - Petroleum Refineries	Mole fraction of each GHG above the concentration threshold	98.256l5		X									
Y - Petroleum Refineries	Number of venting events	98.256l5		X									
Y - Petroleum Refineries	Cumulative venting time	98.256l5		X									
Y - Petroleum Refineries	Cumulative annual CH_4 emissions	98.256m1			X								
Y - Petroleum Refineries	Total quantity of crude oil plus the quantity of intermediate products received from off-site that are processed at the facility in the reporting year	98.256m2		X									
Y - Petroleum Refineries	CH_4 emission factor used	98.256m3		X									
Y - Petroleum Refineries	Basis for the CH_4 emission factor used (i.e., select from Weekly or more often measurements; Periodic (less frequent than weekly) measurements; Averge of multiple source tests; One-time source test; Default factor)	98.256m3							X				
Y - Petroleum Refineries	Cumulative CH_4 emissions	98.256n1			X								
Y - Petroleum Refineries	Method used to calculate the reported equipment leak emissions	98.256n2						X					
Y - Petroleum Refineries	Number of each type of emission source listed in Equation Y-21	98.256n3		X									
Y - Petroleum Refineries	Cumulative annual CH_4 emissions	98.256o1			X								
Y - Petroleum Refineries	Method used to calculate the reported storage tank emissions for storage tanks other than those processing unstabilized crude	98.256o2						X					
Y - Petroleum Refineries	Total quantity of crude oil plus the quantity of intermediate products received from off-site that are processed at the facility in the reporting year	98.256o3		X									
Y - Petroleum Refineries	Cumulative annual CH_4 emissions	98.256o4			X								

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Y - Petroleum Refineries	Method used to calculate the reported storage tank emissions for storage tanks processing unstabilized crude oil	98.256o5						X					
Y - Petroleum Refineries	Quantity of unstabilized crude oil received during the calendar year	98.256o6		X									
Y - Petroleum Refineries	Average pressure differential	98.256o6		X									
Y - Petroleum Refineries	Mole fraction of CH_4 in vent gas from the unstabilized crude oil storage tank	98.256o6		X									
Y - Petroleum Refineries	Basis for the mole fraction of CH4 in the vent gas from the unstabilized crude oil storage tank (i.e., Measurement of methane composition; Engineering estimate of methane composition based on crude composition; Default)	98.256o6							X				
Y - Petroleum Refineries	Tank-specific methane composition data	98.256o7		X									
Y - Petroleum Refineries	Gas generation rate data	98.256o7		X									
Y - Petroleum Refineries	Cumulative annual CH_4 emissions	98.256p1			X								
Y - Petroleum Refineries	Quantity of materials loaded that have an equilibrium vapor-phase concentration of CH_4 of 0.5 volume percent or greater	98.256p2		X									
Y - Petroleum Refineries	Types of materials loaded than have an equilibrium vapor-phase concentration of CH_4 of 0.5 volume percent or greater	98.256p2					X						
Y - Petroleum Refineries	Type of vessels in which material that has an equilibrium vapor-phase concentration of CH_4 of 0.5 volume percent or greater is loaded	98.256p2					X						
Y - Petroleum Refineries	Type of control system used to reduce emissions from the loading of material with an equilibrium vapor-phase concentration of methane of 0.5 volume percent or greater	98.256p3				X							
Y - Petroleum Refineries	Name of each method listed in §98.254 or a description of manufacturer's recommended method used to determine a measured parameter	98.256q							X				
Z - Phosphoric Acid Production	Annual phosphoric acid production by origin of the phosphate rock	98.266a1								X			
Z - Phosphoric Acid Production	Annual phosphoric acid permitted production capacity	98.266b				X							

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Subpart	Data Element	Reporting Section	Facility and Unit Identifier Information	Inputs to Emission Equations	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 Emisison 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 Specifc & Vendor Data Submitted in BAMM Extension Requests
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Z - Phosphoric Acid Production	Annual arithmetic average percent inorganic carbon in phosphate rock from monthly records	98.266c									X		
Z - Phosphoric Acid Production	Annual phosphate rock consumption from monthly measurement records by origin	98.266d									X		
Z - Phosphoric Acid Production	Identification number (CEMS)	98.266e1	X										
Z - Phosphoric Acid Production	Annual CO_2 emissions (CEMS)	98.266e2			X								
Z - Phosphoric Acid Production	Tier 4 Calculation Methodology reporting requirements specified under §98.36(e)(2)(vi)[1]	98.266e2											
Z - Phosphoric Acid Production	Identification number (No CEMS)	98.266f1	X										
Z - Phosphoric Acid Production	Annual CO_2 emissions (No CEMS)	98.266f2		X									
Z - Phosphoric Acid Production	Annual phosphoric acid permitted production capacity	98.266f3				X							
Z - Phosphoric Acid Production	Method used to estimate any missing values of inorganic carbon content of phosphate rock	98.266f4										X	
Z - Phosphoric Acid Production	Monthly inorganic carbon content of phosphate rock	98.266f5		X									
Z - Phosphoric Acid Production	Monthly mass of phosphate rock consumed by origin in production	98.266f6		X									
Z - Phosphoric Acid Production	Number of wet-process phosphoric acid process lines	98.266f7		X									
Z - Phosphoric Acid Production	Number of times missing data procedures were used to estimate phosphate rock consumption	98.266f8										X	
Z - Phosphoric Acid Production	Number of times missing data procedures were used to estimate inorganic carbon contents of the phosphate rock	98.266f8										X	
AA - Pulp and Paper Manufacturing	Annual emissions of CO_2	98.276a			X								
AA - Pulp and Paper Manufacturing	Annual emissions of biogenic CO_2	98.276a			X								
AA - Pulp and Paper Manufacturing	Annual emissions of CH_4	98.276a			X								
AA - Pulp and Paper Manufacturing	Annual emissions of biogenic CH_4	98.276a			X								
AA - Pulp and Paper Manufacturing	Annual emissions of N_2O	98.276a			X								

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Subpart	**Data Element**	**Reporting Section**	**Facility and Unit Identifier Information**	**Inputs to Emission Equations**	**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 Emisison 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 Specifc & Vendor Data Submitted in BAMM Extension Requests**
Proposed Confidentiality Determinations			Emission Data (made available to the public)	Emission Data (made available to the public)	Emission Data (made available to the public)	Not CBI	Not CBI	Emission Data (made available to the public)	Not CBI	CBI	CBI	Emission Data (made available to the public)	CBI
AA - Pulp and Paper Manufacturing	Annual emissions of biogenic N_2O	98.276a			X								
AA - Pulp and Paper Manufacturing	Annual quantities of fossil fuels used in chemical recovery furnaces	98.276b		X									
AA - Pulp and Paper Manufacturing	Annual quantities of fossil fuels used in chemical recovery combustion units	98.276b		X									
AA - Pulp and Paper Manufacturing	Annual mass of the spent liquor solids combusted	98.276c		X									
AA - Pulp and Paper Manufacturing	Basis for determining the annual mass of the spent liquor solids combusted	98.276c							X				
AA - Pulp and Paper Manufacturing	High heat value (HHV) of the spent liquor solids used in Equation AA-1	98.276d		X									
AA - Pulp and Paper Manufacturing	Default emission factor for CO_2 used in equation AA-1	98.276e		X									
AA - Pulp and Paper Manufacturing	Default emission factor for CH_4 used in equation AA-1	98.276e		X									
AA - Pulp and Paper Manufacturing	Default emission factor for N_2O used in equation AA-1	98.276e		X									
AA - Pulp and Paper Manufacturing	Carbon content of the spent liquor solids used in Equation AA-2	98.276f		X									
AA - Pulp and Paper Manufacturing	Annual quantities of fossil fuels used in pulp mill lime kilns	98.276g		X									
AA - Pulp and Paper Manufacturing	Make-up quantity of $CaCO_3$ used for the reporting year used in Equation AA-3	98.276h		X									
AA - Pulp and Paper Manufacturing	Make-up quantity of Na_2CO_3 used for the reporting year used in Equation AA-3	98.276i		X									
AA - Pulp and Paper Manufacturing	Annual steam purchases	98.276j									X		
AA - Pulp and Paper Manufacturing	Annual production of pulp and/or paper products produced	98.276k								X			
BB - Silicon Carbide Production	Tier 4 Calculation Methodology reporting requirements specified under §98.3C[1]	98.286a											
BB - Silicon Carbide Production	Annual consumption of petroleum coke (CEMS)	98.286a1									X		
BB - Silicon Carbide Production	Annual production of silicon carbide (CEMS)	98.286a2								X			
BB - Silicon Carbide Production	Annual production capacity of silicon carbide (CEMS)	98.286a3				X							
BB - Silicon Carbide Production	Monthly consumption of petroleum coke (No CEMS)	98.286b1		X									
BB - Silicon Carbide Production	Annual production of silicon carbide (No CEMS)	98.286b2								X			

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BB - Silicon Carbide Production	Annual production capacity of silicon carbide (No CEMS)	98.286b3				X							
BB - Silicon Carbide Production	Carbon content factor of petroleum coke from the supplier or as measured by the applicable method	98.286b4		X									
BB - Silicon Carbide Production	Indicate whether carbon content of the petroleum coke is based on reports from the supplier or through self measurement using applicable ASTM standard method	98.286b5							X				
BB - Silicon Carbide Production	CO_2 emissions factor calculated	98.286b6		X									
BB - Silicon Carbide Production	Sampling analysis results for carbon content of consumed petroleum coke as determined for QA/QC of supplier data	98.286b7					X						
BB - Silicon Carbide Production	Number of times in the reporting year that missing data procedures were followed to measure the carbon contents of petroleum coke	98.286b8										X	
BB - Silicon Carbide Production	Number of times in the reporting year that missing data procedures were followed to measure petroleum coke consumption	98.286b8										X	
CC - Soda Ash Manufacturing	Tier 4 Calculation Methodology reporting requirements specified under §98.3€[1]	98.296a											
CC - Soda Ash Manufacturing	Annual consumption of trona or liquid alkaline feedstock (CEMS)	98.296a1									X		
CC - Soda Ash Manufacturing	Annual production of soda ash (CEMS)	98.296a2								X			
CC - Soda Ash Manufacturing	Annual production capacity of soda ash (CEMS)	98.296a3				X							
CC - Soda Ash Manufacturing	Identification number (CEMS)	98.296a4	X										
CC - Soda Ash Manufacturing	Identification number (No CEMS)	98.296b1	X										
CC - Soda Ash Manufacturing	Annual process CO_2 emissions	98.296b2			X								
CC - Soda Ash Manufacturing	Annual production of soda ash (No CEMS)	98.296b3								X			
CC - Soda Ash Manufacturing	Annual production capacity of soda ash (No CEMS)	98.296b4				X							
CC - Soda Ash Manufacturing	Monthly consumption of trona or liquid alkaline feedstock	98.296b5		X									
CC - Soda Ash Manufacturing	Monthly production of soda ash	98.296b6		X									

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CC - Soda Ash Manufacturing	Inorganic carbon content factor of trona or soda ash	98.296b7		X									
CC - Soda Ash Manufacturing	Indicate whether CO_2 emissions were calculated using a trona input method, a soda ash output method, or a site-specific emission factor method	98.296b8						X					
CC - Soda Ash Manufacturing	Number of manufacturing lines located used to produce soda ash	98.296b9				X							
CC - Soda Ash Manufacturing	Stack gas volumetric flow rate per minute	98.296b10i		X									
CC - Soda Ash Manufacturing	Hourly CO_2 concentration	98.296b10iii		X									
CC - Soda Ash Manufacturing	CO_2 emission factor of process vent flow from mine water	98.296b10iii		X									
CC - Soda Ash Manufacturing	CO_2 emission mass emission rate	98.296b10iv		X									
CC - Soda Ash Manufacturing	Average process vent flow from mine water stripper/evaporator during performance test	98.296b10v		X									
CC - Soda Ash Manufacturing	Annual process vent flow rate from mine stripper/evaporator	98.296b10vi		X									
CC - Soda Ash Manufacturing	Annual operating hours for manufacturing lines used to produce soda ash using liquid alkaline feedstock	98.296b10vii		X									
CC - Soda Ash Manufacturing	Number of times missing data procedures were used for trona or soda ash	98.296b11i										X	
CC - Soda Ash Manufacturing	Number of times missing data procedures were used for inorganic carbon contents of trona or soda ash	98.296b11ii										X	
CC - Soda Ash Manufacturing	Number of times missing data procedures were used for process vent flow rate from mine water stripper/evaporator	98.296b11iii										X	
CC - Soda Ash Manufacturing	Number of times missing data procedures were used for stack gas volumetric flow rate during performance test	98.296b11iv										X	
CC - Soda Ash Manufacturing	Number of times missing data procedures were used for hourly CO_2 concentration	98.296b11v										X	
CC - Soda Ash Manufacturing	Number of times missing data procedures were used for average vent process vent flow rate from mine stripper/evaporator during performance test	98.296b11vi										X	

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Proposed Confidentiality Determinations			Emission Data (made available to the public)	Emission Data (made available to the public)	Emission Data (made available to the public)	Not CBI	Not CBI	Emission Data (made available to the public)	Not CBI	CBI	CBI	Emission Data (made available to the public)	CBI
DD - SF6 and PFCs from Electrical Equipment at an Electric Power System	Nameplate capacity of equipment containing SF6 or PFC existing as of the beginning of the year	98.306a1				X							
DD - SF6 and PFCs from Electrical Equipment at an Electric Power System	Nameplate capacity of equipment containing SF6 or PFC added during the year	98.306a2		X									
DD - SF6 and PFCs from Electrical Equipment at an Electric Power System	Nameplate capacity of equipment containing SF6 or PFC s that was retired during the year	98.306a3		X									
DD - SF6 and PFCs from Electrical Equipment at an Electric Power System	Transmission miles (lengh of lines carrying voltage at or above 34.5 kV)	98.306b				X							
DD - SF6 and PFCs from Electrical Equipment at an Electric Power System	SF6 and PFC sales	98.306c		X									
DD - SF6 and PFCs from Electrical Equipment at an Electric Power System	SF6 and PFC purchases	98.306c		X									
DD - SF6 and PFCs from Electrical Equipment at an Electric Power System	SF6 and PFCs sent off site for destruction	98.306d		X									
DD - SF6 and PFCs from Electrical Equipment at an Electric Power System	SF6 and PFCs sent off site to be recycled	98.306e		X									
DD - SF6 and PFCs from Electrical Equipment at an Electric Power System	SF6 and PFCs returned from off site after recycling	98.306f		X									
DD - SF6 and PFCs from Electrical Equipment at an Electric Power System	SF6 and PFCs stored in containers at the beginning of the year	98.306g		X									

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Proposed Confidentiality Determinations			Emission Data (made available to the public)	Emission Data (made available to the public)	Emission Data (made available to the public)	Not CBI	Not CBI	Emission Data (made available to the public)	Not CBI	CBI	CBI	Emission Data (made available to the public)	CBI
DD - SF6 and PFCs from Electrical Equipment at an Electric Power System	SF6 and PFCs stored in containers at the end of the year	98.306g		X									
DD - SF6 and PFCs from Electrical Equipment at an Electric Power System	SF6 and PFC with or inside new equipment purchased during the year	98.306h		X									
DD - SF6 and PFCs from Electrical Equipment at an Electric Power System	SF6 and PFC with or inside equipment sold to other entities during the year	98.306i		X									
DD - SF6 and PFCs from Electrical Equipment at an Electric Power System	SF6 and PFC returned to suppliers.	98.306j		X									
EE - Titanium Dioxide Production	Tier 4 Calculation Methodology reporting requirements specified under §98.3c[1]	98.316a											
EE - Titanium Dioxide Production	Identification number (CEMS)	98.316a1	X										
EE - Titanium Dioxide Production	Annual consumption of calcined petroleum coke (CEMS)	98.316a2									X		
EE - Titanium Dioxide Production	Annual production of titanium dioxide (CEMS)	98.316a3								X			
EE - Titanium Dioxide Production	Annual production capacity of titanium dioxide (CEMS)	98.316a4				X							
EE - Titanium Dioxide Production	Annual production of carbon-containing waste (CEMS)	98.316a5								X			
EE - Titanium Dioxide Production	Identification number (No CEMS)	98.316b1	X										
EE - Titanium Dioxide Production	Annual CO_2 emissions (No CEMS)	98.316b2			X								
EE - Titanium Dioxide Production	Annual consumption of calcined petroleum coke (No CEMS)	98.316b3									X		
EE - Titanium Dioxide Production	Annual production of titanium dioxide (No CEMS)	98.316b4								X			
EE - Titanium Dioxide Production	Annual production capacity of titanium dioxide (No CEMS)	98.316b5				X							
EE - Titanium Dioxide Production	Calcined petroleum coke consumption	98.316b6		X									
EE - Titanium Dioxide Production	Annual production of carbon-containing waste	98.316b7								X			

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EE - Titanium Dioxide Production	Monthly production of titanium dioxide	98.316b8		X									
EE - Titanium Dioxide Production	Monthly carbon content factor of petroleum coke from the supplier	98.316b9		X									
EE - Titanium Dioxide Production	Indicate whether monthly carbon content of the petroleum coke is based on reports from the supplier or through self measurement using applicable ASTM standard methods	98.316b10							X				
EE - Titanium Dioxide Production	Carbon content for carbon-containing waste	98.316b11								X			
EE - Titanium Dioxide Production	ASTM standard methods used	98.316b12							X				
EE - Titanium Dioxide Production	Sampling analysis results of carbon content of petroleum coke as determined for QA/QC of supplier data	98.316b13					X						
EE - Titanium Dioxide Production	Number of separate chloride process lines located at the facility	98.316b14		X									
EE - Titanium Dioxide Production	Number of times in the reporting year that missing data procedures were followed to measure the carbon contents of petroleum coke	98.316b15										X	
EE - Titanium Dioxide Production	Number of times in the reporting year that missing data procedures were followed to measure the petroleum coke consumption	98.316b15										X	
EE - Titanium Dioxide Production	Number of times in the reporting year that missing data procedures were followed to measure the carbon-containing waste generated	98.316b15										X	
EE - Titanium Dioxide Production	Number of times in the reporting year that missing data procedures were followed to measure the carbon contents of the carbon containing waste	98.316b15										X	
FF- Underground Coal Mines	Quarterly CH_4 liberated from each ventilation monitoring point (CH_{4v})	98.326a		X									
FF- Underground Coal Mines	Weekly CH4 liberated from each degasification system monitoring point (metric tons CH4)	98.326b		X									
FF- Underground Coal Mines	Quarterly CH_4 destruction at each vetilation and degassification system destruction device or point of offsite transport ($CH_{2Destroyed}$)	98.326c		X									

Table A-1: List of Data Elements in Proposed and Final Direct Emitter Subparts

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FF- Underground Coal Mines	Net quarterly CH_4 emissions from all ventilation and degasification systems (CH_4 emitted (net))	98.326d			X								
FF- Underground Coal Mines	Quarterly CO2 emissions from onsite destruction, where the gas is not a fuel input for energy generation or use (e.g., flaring)	98.326e			X								
FF- Underground Coal Mines	Quarterly volumetric flow rate (scfm)	98.326f		X									
FF- Underground Coal Mines	Date of each measurement	98.326f		X									
FF- Underground Coal Mines	Location of each measurement	98.326f					X						
FF- Underground Coal Mines	Method of measurement (sampling or continuous monitoring)	98.326f							X				
FF- Underground Coal Mines	Quarterly CH4 concentration	98.326g		X									
FF- Underground Coal Mines	Dates CH4 concentration was measured	98.326g		X									
FF- Underground Coal Mines	Location CH4 concentration was measured	98.326g					X						
FF- Underground Coal Mines	Method of measurement (sampling or continuous monitoring)	98.326g							X				
FF- Underground Coal Mines	Weekly volumetric flow used to calculate CH4 liberated from degasification systems	98.326h		X									
FF- Underground Coal Mines	Method of measurement (sampling or continuous monitoring)	98.326h							X				
FF- Underground Coal Mines	Quarterly sum of CEMS CH4 concentration data used to calculate CH4 liberated from degasification systems (C)	98.326i		X									
FF- Underground Coal Mines	Quarterly reporting of CH4 concentration data based on weekly sampling data (C)	98.326i		X									
FF- Underground Coal Mines	Weekly volumetric flow used to calculate CH_4 destruction for each destruction device and each point of offsite transport (scf).	98.326j		X									
FF- Underground Coal Mines	Weekly CH_4 concentration (%) used to calculate CH_4 destruction (C).	98.326k		X									
FF- Underground Coal Mines	Dates in quarterly reporting period where active ventilation of mining operations is taking place	98.326l		X									
FF- Underground Coal Mines	Dates in quarterly reporting period where degasification of mining operations is taking place	98.326m		X									

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FF- Underground Coal Mines	Dates in quarterly reporting period when continuous monitoring equipment is not properly functioning	98.326n										X	
FF- Underground Coal Mines	Temperature (deg R) at which each sample is collected	98.326o		X									
FF- Underground Coal Mines	Pressure (atm) at which each sample is collected	98.326o		X									
FF- Underground Coal Mines	Description of the destruction device (including an indication of whether the destruction occurs at the coal mine site or off-site)	98.326p				X							
FF- Underground Coal Mines	Indicate whether a backup destruction device is present at the mine	98.326p				X							
FF- Underground Coal Mines	Annual operating hours of the primary destruction device	98.326p					X						
FF- Underground Coal Mines	Assumed destruction efficiency for the primary destruction device	98.326p		X									
FF- Underground Coal Mines	Annual operating hours of the backup destruction device	98.326p					X						
FF- Underground Coal Mines	Assumed destruction efficiency for the backup destruction device	98.326p		X									
FF- Underground Coal Mines	Description of the gas collection system (manufacture, capacity, number of wells, etc)	98.326q				X							
FF- Underground Coal Mines	Surface area of the gas collection system	98.326q				X							
FF- Underground Coal Mines	Annual operating hours of the gas collection system	98.326q					X						
FF- Underground Coal Mines	Indentification information for each well and shaft	98.326r	X										
FF- Underground Coal Mines	Description of each well and shaft	98.326r				X							
FF- Underground Coal Mines	Indication of whether the well or shaft is monitored individually or as part of a centralized monitoring point.	98.326r				X							
FF- Underground Coal Mines	Method used (sampling or continuous monitoring)	98.326r							X				
FF- Underground Coal Mines	Identification of wells and shafts for each centralized monitoring point	98.326s				X							
FF- Underground Coal Mines	Method used (sampling or continuous monitoring)	98.326s							X				
GG - Zinc Production	Tier 4 Calculation Methodology reporting requirements specified under §98.3€[1]	98.336a											

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GG - Zinc Production	Annual zinc product production capacity (CEMS)	98.336a1				X							
GG - Zinc Production	Annual production quantity (CEMS)	98.336a2								X			
GG - Zinc Production	Annual facility production quantity (CEMS)	98.336a3								X			
GG - Zinc Production	Number of Waelz kilns at facilities used for zinc production (CEMS)	98.336a4				X							
GG - Zinc Production	Number of electrothermic furnaces at facilities used for zinc production (CEMS)	98.336a5				X							
GG - Zinc Production	Kiln identification number	98.336b1	X										
GG - Zinc Production	Annual process CO_2 emissions	98.336b1			X								
GG - Zinc Production	Annual zinc product production capacity (No CEMS)	98.336b2				X							
GG - Zinc Production	Annual production quantity	98.336b3								X			
GG - Zinc Production	Number of Waelz kilns at facilities used for zinc production (No CEMS)	98.336b4		X									
GG - Zinc Production	Number of electrothermic furnaces at facilities used for zinc production (No CEMS)	98.336b5		X									
GG - Zinc Production	Annual mass of carbon-containing input materials charged to kilns or furnaces	98.336b6		X									
GG - Zinc Production	Carbon content of carbon-containing input materials charged to kilns or furnaces from the annual carbon analysis for kilns or furnaces	98.336b7		X									
GG - Zinc Production	Indicate whether carbon content of carbon-containing input materials charged to kilns or furnaces is based on reports from the supplier or through self measurement using applicable ASTM standard method	98.336b8							X				
GG - Zinc Production	ASTM Standard Test Method used	98.336b9							X				
GG - Zinc Production	Carbon content of the carbon electrodes used in furnaces from the annual carbon analysis	98.336b10		X									
GG - Zinc Production	Indicate whether carbon content of the carbon electrode used in furnaces is based on reports from the supplier or through self measurement using applicable ASTM standard method	98.336b11							X				
GG - Zinc Production	ASTM standard methods used	98.336b12							X				
GG - Zinc Production	How the monthly mass of carbon-containing materials with missing data was determined	98.336b13										X	
GG - Zinc Production	Number of months the missing data procedures were used	98.336b13										X	

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HH - Municipal Solid Waste Landfills	A classification of the landfill as “open” or “closed”	98.346a					X						
HH - Municipal Solid Waste Landfills	Year in which the landfill first started accepting waste for disposal	98.346a		X									
HH - Municipal Solid Waste Landfills	Last year the landfill accepted waste	98.346a		X									
HH - Municipal Solid Waste Landfills	Capacity of the landfill	98.346a		X									
HH - Municipal Solid Waste Landfills	Indication of whether leachate recirculation is used	98.346a					X						
HH - Municipal Solid Waste Landfills	Waste disposal quantity for each year of landfilling	98.346a		X									
HH - Municipal Solid Waste Landfills	Method for estimating waste disposal quantity	98.346b						X					
HH - Municipal Solid Waste Landfills	Reason for the selection of the method for estimating waste disposal quantity	98.346b						X					
HH - Municipal Solid Waste Landfills	Waste composition that is municipal	98.346c1		X									
HH - Municipal Solid Waste Landfills	Waste composition from biosolids or biological sludge	98.346c2		X									
HH - Municipal Solid Waste Landfills	Waste composition from other, or more refined categories	98.346c3		X									
HH - Municipal Solid Waste Landfills	Method or basis for estimating waste composition from other, or more refined categories	98.346c3							X				
HH - Municipal Solid Waste Landfills	Degradable organic carbon (DOC) value used	98.346d1		X									
HH - Municipal Solid Waste Landfills	Decay rate (k) value	98.346d2		X									
HH - Municipal Solid Waste Landfills	Fraction of CH_4 in landfill gas (F)	98.346e		X									
HH - Municipal Solid Waste Landfills	Indication of whether the fraction of CH4 was determined based on measured values or the default value	98.346e							X				
HH - Municipal Solid Waste Landfills	Surface area of the landfill containing waste	98.346f					X						
HH - Municipal Solid Waste Landfills	Cover types applicable to the landfill	98.346f					X						
HH - Municipal Solid Waste Landfills	Surface area for cover types used to calculate the average oxidation fraction	98.346f		X									
HH - Municipal Solid Waste Landfills	Oxidation fraction for cover types used to calculate the average oxidation fraction	98.346f		X									

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HH - Municipal Solid Waste Landfills	Average oxidation fraction used in the calculations	98.346f		X									
HH - Municipal Solid Waste Landfills	Modeled annual methane generation rate for the reporting year (used in Equation HH-1)	98.346g			X								
HH - Municipal Solid Waste Landfills	Annual CH_4 emissions	98.346h			X								
HH - Municipal Solid Waste Landfills	Total volumetric flow of landfill gas collected for destruction	98.346i1		X									
HH - Municipal Solid Waste Landfills	CH_4 concentration of landfill gas collected for destruction	98.346i2		X									
HH - Municipal Solid Waste Landfills	Monthly average temperature at which flow is measured for landfill gas collected for destruction, or statement that temperature is incorporated into internal calculations run by the monitoring equipment	98.346i3		X									
HH - Municipal Solid Waste Landfills	Monthly average pressure at which flow is measured for landfill gas collected for destruction, or statement that temperature is incorporated into internal calculations run by the monitoring equipment	98.346i4		X									
HH - Municipal Solid Waste Landfills	Indication of whether destruction occurs at the landfill facility or off-site	98.346i5					X						
HH - Municipal Solid Waste Landfills	Annual operating hours for the primary destruction device	98.346i5		X									
HH - Municipal Solid Waste Landfills	Annual operating hours for the backup destruction device	98.346i5		X									
HH - Municipal Solid Waste Landfills	Destruction efficiency	98.346i5		X									
HH - Municipal Solid Waste Landfills	Annual quantity of recovered CH_4 (Equation HH-4)	98.346i6			X								
HH - Municipal Solid Waste Landfills	Description of the gas collection system	98.346i7				X							
HH - Municipal Solid Waste Landfills	Surface area as specified in Table HH-3	98.346i7					X						
HH - Municipal Solid Waste Landfills	Estimate waste depth as specified in Table HH-3	98.346i7		X									
HH - Municipal Solid Waste Landfills	Estimated gas collection system efficiency	98.346i7		X									
HH - Municipal Solid Waste Landfills	Annual operating hours of the gas collection system	98.346i7		X									
HH - Municipal Solid Waste Landfills	CH_4 generation corrected for oxidation (Equation HH-5)	98.346i8			X								

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HH - Municipal Solid Waste Landfills	CH_4 generation value (input to Equation HH-6)	98.346i9			X								
HH - Municipal Solid Waste Landfills	Specify whether CH_4 generation value (input to Equation HH-6) is modeled or measured	98.346i9							X				
HH - Municipal Solid Waste Landfills	CH_4 generation corrected for oxidation (Equation HH-7)	98.346i10			X								
HH - Municipal Solid Waste Landfills	CH_4 emissions (Equation HH-6)	98.346i11			X								
HH - Municipal Solid Waste Landfills	CH_4 emissions (Equation HH-8)	98.346i12			X								
II - Wastewater Treatment	A description or diagram of the industrial wastewater treatment system: identifying the processes used to treat industrial wastewater and sludge, how the processes are related, average depth of all anaerobic lagoons, type of anaerobic process (i.e., reactor, deep lagoon, shallow lagoon, sludge digester), and indication of whether biogas is generated by each anaerobic process is recovered.	98.356a				X							
II - Wastewater Treatment	Weekly average COD or BOD5 concentration of wastewater entering anaerobic process	98.356b1		X									
II - Wastewater Treatment	Volume of wastewater entering the anaerobic process	98.356b2		X									
II - Wastewater Treatment	Maximum CH_4 production potential (Bo) used as an input to Equation II-1 or II-2.	98.356b3		X									
II - Wastewater Treatment	Methane conversion factor (MCF) used as an input to Equation II-1 or II-2	98.356b4		X									
II - Wastewater Treatment	Annual mass of CH_4 generated (calculated using Equations II-1 or II-2)	98.356b5		X									
II - Wastewater Treatment	Annual mass of CH_4 not recovered (calculated using Equation II-3)	98.356c			X								
II - Wastewater Treatment	Annual quantity of CH_4 recovered (calculated using Equation II-4)	98.356d1		X									
II - Wastewater Treatment	Cummulative volumetric biogas flow	98.356d2		X									
II - Wastewater Treatment	Weekly average CH_4 concentration	98.356d3		X									
II - Wastewater Treatment	Weekly average temperature at which flow is measured for biogas collected for destruction	98.356d4		X									
II - Wastewater Treatment	Statement that temperature is incorporated into monitoring equipment	98.356d4						X					

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II - Wastewater Treatment	Indication of whether flow was measured on a wet or dry basis	98.356d5						X					
II - Wastewater Treatment	Indication of whether CH_4 was measured on a wet or dry basis	98.356d5						X					
II - Wastewater Treatment	Weekly average moisture content	98.356d5		X									
II - Wastewater Treatment	Statement that moisture content is incorporated into monitoring equipment internal calculations.	98.356d5						X					
II - Wastewater Treatment	Weekly average pressure	98.356d6		X									
II - Wastewater Treatment	Statement that pressure is incorporated into monitoring equipment internal calculations.	98.356d6						X					
II - Wastewater Treatment	CH_4 collection efficiency (CE) used in equation II-5)	98.356d7		X									
II - Wastewater Treatment	Indication of whether destruction occurs at the facility or off-site	98.356d8				X							
II - Wastewater Treatment	Indication of whether a backup destruction device is present onsite	98.356d8				X							
II - Wastewater Treatment	Annual operating hours for the primary destruction device	98.356d8		X									
II - Wastewater Treatment	Annual operating hours for the backup destruction device	98.356d8		X									
II - Wastewater Treatment	Destruction efficiency of the primary destruction device	98.356d8		X									
II - Wastewater Treatment	Destruction efficiency of the backup destruction device	98.356d8		X									
II - Wastewater Treatment	Annual CH_4 emissions calculated by Equation II-6	98.356d9			X								
II - Wastewater Treatment	Total mass of CH_4 emitted from all anaerobic process from which biogas is not recovered (calculated in Equation II-3) and from all anaerobic processes from which some biogas is recovered (calculated in Equation II-6) using Equation II-7.	98.356e			X								
RR - Injection and Geological Sequestration of Carbon Dioxide	Annual CO_2 mass emitted as fugitive and vented emissions from surface equipment located at the GS facility.	98.446f1			X								

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RR - Injection and Geological Sequestration of Carbon Dioxide	Annual CO2 mass emitted as fugitive or vented emissions from equipment located on the surface between the flow meter used to measure injection quantity and the injection wellhead.	98.446f2			X								
RR - Injection and Geological Sequestration of Carbon Dioxide	Annual CO2 mass emitted as fugitive or vented emissions from equipment located on the surface between the production wellhead and flow meter used to measure production quantity.	98.446f3			X								
RR - Injection and Geological Sequestration of Carbon Dioxide	CO_2 emitted through each leakage pathway during the reporting year.	98.446f11			X								
RR - Injection and Geological Sequestration of Carbon Dioxide	Annual CO_2 mass emitted from subsurface geologic formation at the facility in the reporting year, as calculated by Equation RR-10.	98.446f12			X								
RR - Injection and Geological Sequestration of Carbon Dioxide	Date that most recent MRV plan was approved.	98.446f15	X										
RR - Injection and Geological Sequestration of Carbon Dioxide	MRV plan approval number.	98.446f15	X										
RR - Injection and Geological Sequestration of Carbon Dioxide	Whether any of the MRV plan resubmissions scenarios were triggered during the reporting year such that you must submit a new MRV plan in the following year.	98.446f16					X						
RR - Injection and Geological Sequestration of Carbon Dioxide	MRV Plan, supporting documentation, and any other reporting requirement that is specified in the MRV Plan.	98.448a5 & 98.446f18						X					
RR - Injection and Geological Sequestration of Carbon Dioxide	Annual addendum (at the same time as the next annual report) that includes (1) a description of the leak including all assumptions, methodology, and technologies involved in the leakage detection and quantifications, if a leak was detected; and (2) a description of how the monitoring strategy was adjusted, if adjustments were made.	98.448a6						X					

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SS - SF6 and PFCs from Electrical Equipment Manufacture or Refurbishment	SF6 and PFC sales	98.456a		X									
SS - SF6 and PFCs from Electrical Equipment Manufacture or Refurbishment	SF6 and PFC purchases	98.456a		X									
SS - SF6 and PFCs from Electrical Equipment Manufacture or Refurbishment	SF6 and PFC sent off site for destruction	98.456b		X									
SS - SF6 and PFCs from Electrical Equipment Manufacture or Refurbishment	SF6 and PFC sent off site to be recycled	98.456c		X									
SS - SF6 and PFCs from Electrical Equipment Manufacture or Refurbishment	SF6 and PFC returned from off site after recycling.	98.456d		X									
SS - SF6 and PFCs from Electrical Equipment Manufacture or Refurbishment	SF6 and PFC returned by equipment users with or inside equipment.	98.456e		X									
SS - SF6 and PFCs from Electrical Equipment Manufacture or Refurbishment	SF6 and PFC stored in containers at the the beginning of the year	98.456f		X									
SS - SF6 and PFCs from Electrical Equipment Manufacture or Refurbishment	SF6 and PFC stored in containers at the end of the year	98.456f		X									
SS - SF6 and PFCs from Electrical Equipment Manufacture or Refurbishment	SF6 and PFC inside equipment delivered to customers	98.456g		X									
SS - SF6 and PFCs from Electrical Equipment Manufacture or Refurbishment	SF6 and PFC returned to suppliers	98.456h		X									

Table A-1: List of Data Elements in Proposed and Final Direct Emitter Subparts

Footnotes:

[1] This data element is not assigned to a category because the data element refers to a reporting requirement specified under another subpart that has already been assigned to a category under that subpart.

			Category											
Subpart	**Data Element**	**Reporting Section**	**Facility and Unit Identifier Information**	**Inputs to Emission Equations**	**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 Emisison 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 Specifc & Vendor Data Submitted in BAMM Extension Requests**
Proposed Confidentiality Determinations			Emission Data (made available to the public)	Emission Data (made available to the public)	Emission Data (made available to the public)	Not CBI	Not CBI	Emission Data (made available to the public)	Not CBI	CBI	CBI	Emission Data (made available to the public)	CBI
SS - SF6 and PFCs from Electrical Equipment Manufacture or Refurbishment	Nameplate capacity of the equipment delivered to customers with SF6 or PFCs inside	98.456i								X			
SS - SF6 and PFCs from Electrical Equipment Manufacture or Refurbishment	Description of the engineering methods and caclulations used to determine emissions from hoses or other flow lines that connect the container to the equipment that is being filled.	98.456j						X					
SS - SF6 and PFCs from Electrical Equipment Manufacture or Refurbishment	Reason data were missing	98.456k										X	
SS - SF6 and PFCs from Electrical Equipment Manufacture or Refurbishment	Length of time the data were missing	98.456k										X	
SS - SF6 and PFCs from Electrical Equipment Manufacture or Refurbishment	Method used to estimate the emissions	98.456k										X	
SS - SF6 and PFCs from Electrical Equipment Manufacture or Refurbishment	Quantity of emissions estimated	98.456k										X	
TT- Industrial Landfills	Classification of the landfill as open or closed	98.466a1					X						
TT- Industrial Landfills	The year the landfill first started accepting waste for disposal	98.466a2		X									
TT- Industrial Landfills	Last year the landfill accepted waste (for open landfills, enter the estimated year of landfill closure)	98.466a3				X							
TT- Industrial Landfills	Capacity of the landfill in metric tons	98.466a4				X							
TT- Industrial Landfills	Indication of whether leachate recirculation is used during the reporting year	98.466a5					X						
TT- Industrial Landfills	Typical frequency of leachate use over the past 10 years	98.466a5					X						
TT- Industrial Landfills	Number of waste streams (including "other industrial solid waste (not otherwise listed)") for which Equation TT-1 is used to calculate modeled CH4 generation.	98.466b1		X									
TT- Industrial Landfills	Description of each waste stream (including types of materials in each waste stream)	98.466b2						X					
TT- Industrial Landfills	The decay rate (k) value used in the equations	98.466c1		X									

Table A-1: List of Data Elements in Proposed and Final Direct Emitter Subparts

Footnotes:

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			Category											
Subpart	**Data Element**	**Reporting Section**	**Facility and Unit Identifier Information**	**Inputs to Emission Equations**	**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 Emisison 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 Specifc & Vendor Data Submitted in BAMM Extension Requests**
Proposed Confidentiality Determinations			Emission Data (made available to the public)	Emission Data (made available to the public)	Emission Data (made available to the public)	Not CBI	Not CBI	Emission Data (made available to the public)	Not CBI	CBI	CBI	Emission Data (made available to the public)	CBI
TT- Industrial Landfills	Method for estimating historical waste disposal quantities	98.466c2						X					
TT- Industrial Landfills	The range of years for which each estimation method applies	98.466c2						X					
TT- Industrial Landfills	Total number of years (N) for which disposal and production data are both available	98.466c3i		X									
TT- Industrial Landfills	The years for which Equation TT-2 appies	98.466c3ii						X					
TT- Industrial Landfills	Waste disposal quantity	98.466c3ii		X									
TT- Industrial Landfills	Production quantity	98.466c3ii		X									
TT- Industrial Landfills	Average waste disposal factor (WDF) calculated for the waste stream	98.466c3iii		X									
TT- Industrial Landfills	Value of landfill capacity (LFC)	98.466c4i		X									
TT- Industrial Landfills	YrData	98.466c4ii		X									
	YrOpen	98.466c4iii		X									
TT- Industrial Landfills	Quantity of waste (Wx) disposed of in the landfill for each waste stream	98.466d1		X									
TT- Industrial Landfills	Degradable organic carbon (DOCx) value used in calculations	98.466d2		X									
TT- Industrial Landfills	Indication of whether the DOCx was a default value from Table TT-1 or a value determined through sampling of each waste stream	98.466d2						X					
TT- Industrial Landfills	Fraction of CH_4 in landfill gas	98.466d3		X									
TT- Industrial Landfills	Indication of whether the fraction of CH_4 in landfill gas is a default value or a value determined through measurement	98.466d3						X					
TT- Industrial Landfills	Type of cover material used (i.e., organic, clay, sand, or other soil)	98.466e1					X						
TT- Industrial Landfills	Surface area at the start of reporting year for the sections that contain waste	98.466e2		X									
TT- Industrial Landfills	Annual methane generation rate for the reporting year calculated using Equation TT-1	98.466f		X									
TT- Industrial Landfills	Annual methane emissions calculated using Equation TT-5	98.466g1			X								
TT- Industrial Landfills	Indication of whether passive vents and/or passive flares (vents or flares that are not considered part of the gas collection system as defined in 98.6) are present	98.466g2					X						
TT- Industrial Landfills	Report 98.346(i) of subpart HH (Municipal Waste Landfills).[1]	98.466h											
Alternative Method Application - Subpart E & V	Name of persons to contact about application	98.53a2 and 98.223a2	X										

Table A-1: List of Data Elements in Proposed and Final Direct Emitter Subparts

Footnotes:

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			Category											
Subpart	**Data Element**	**Reporting Section**	**Facility and Unit Identifier Information**	**Inputs to Emission Equations**	**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 Emisison 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 Specifc & Vendor Data Submitted in BAMM Extension Requests**
Proposed Confidentiality Determinations			Emission Data (made available to the public)	Emission Data (made available to the public)	Emission Data (made available to the public)	Not CBI	Not CBI	Emission Data (made available to the public)	Not CBI	CBI	CBI	Emission Data (made available to the public)	CBI
Alternative Method Application - Subpart E & V	Contact person address	98.53a2 and 98.223a2	X										
Alternative Method Application - Subpart E & V	Contact person phone number	98.53a2 and 98.223a2	X										
Alternative Method Application - Subpart E & V	Contact person e-Mail address	98.53a2 and 98.223a2	X										
Alternative Method Application - Subpart E & V	Contact person data signed	98.53a2 and 98.223a2	X										
Alternative Method Application - Subpart E & V	Contact person data submitted	98.53a2 and 98.223a2	X										
Alternative Method Application - Subpart E & V	Facility name	98.53a2 and 98.223a2	X										
Alternative Method Application - Subpart E & V	Facility physical address	98.53a2 and 98.223a2	X										
Alternative Method Application - Subpart E & V	Unit ID number	98.53a2 and 98.223a2	X										
Alternative Method Application - Subpart E & V	Type of unit (e.g., ntiric acid train)	98.53a2 and 98.223a2	X										
Alternative Method Application - Subpart E & V	Total number of units at facility included in this application	98.53a2 and 98.223a2				X							
Alternative Method Application - Subpart E & V	Name of alternative method	98.53a2 and 98.223a2						X					
Alternative Method Application - Subpart E & V	Reason for your application	98.53a2 and 98.223a2						X					
Alternative Method Application - Subpart E & V	Supplemental data supporting alternative method	98.53a2 and 98.223a2				X	X						
Alternative Method Application - Subpart E & V	Description of alternative method	98.53a2 and 98.223a2						X					

Table A-2: Direct Emitters: Technical Corrections, Clarifying and Other Amendments to Certain Provisions of the Greenhouse Gas Reporting Rule (75 FR 33950, June 15, 2010)

Note: Proposed changes to reporting requirements are shown using bold (new rule text) and strikeout (deleted rule text).

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			Category										
Subpart	**Data Element**	**Reporting Section**	**Facility and Unit Identifier Information**	**Inputs to Emission Equations**	**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 Emisison 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 Specifc & Vendor Data Submitted in BAMM Extension Requests**
Proposed Confidentiality Determination			Emission Data (made available to the public)	Emission Data (made available to the public)	Emission Data (made available to the public)	Not CBI	Not CBI	Emission Data (made available to the public)	Not CBI	CBI	CBI	Emission Data (made available to the public)	CBI
E - Adipic Acid Production	Annual adipic acid production during which N_2O abatement technology **(located after the test point)** is operating	98.56c		X									
E - Adipic Acid Production	Emissions~~s~~ factor for each **unit** ~~facility~~	98.56j1		X									
E - Adipic Acid Production	Test method used for performance test for each **unit** ~~facility~~	98.56j2							X				
E - Adipic Acid Production	Production rate per test run during performance test for each **unit** ~~facility~~	98.56j3		X									
E - Adipic Acid Production	N_2O concentration per test run during performance test for each **unit** ~~facility~~	98.56j4		X									
E - Adipic Acid Production	Volumetric flow rate per test run during performance test for each **unit** ~~facility~~	98.56j5		X									
E - Adipic Acid Production	Number of test runs for each **unit** ~~facility~~	98.56j6		X									
E - Adipic Acid Production	Number of times in the reporting year that a performance test had to be repeated for each **unit** ~~facility~~	98.56j7					X						
E - Adipic Acid Production	Name of alternative method for determining N_2O concentration (report if Administrator approval was requested for an alternative method of determining N2O **emissions** ~~concentration~~)	98.56k1						X					
E - Adipic Acid Production	Description of alternative method for determining N_2O concentration (report if Administrator approval was requested for an alternative method of determining N2O **emissions** ~~concentration~~)	98.56k2						X					
E - Adipic Acid Production	Request date of approval for alternative method for determining N_2O concentration (report if Administrator approval was requested for an alternative method of determining N2O **emissions** ~~concentration~~)	98.56k3						X					

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Subpart	**Data Element**	**Reporting Section**	**Facility and Unit Identifier Information**	**Inputs to Emission Equations**	**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 Emisison 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 Specifc & Vendor Data Submitted in BAMM Extension Requests**
Proposed Confidentiality Determination			Emission Data (made available to the public)	Emission Data (made available to the public)	Emission Data (made available to the public)	Not CBI	Not CBI	Emission Data (made available to the public)	Not CBI	CBI	CBI	Emission Data (made available to the public)	CBI
E - Adipic Acid Production	Approval date of alternative method of determining N_2O concentration (report if Administrator approval was requested for an alternative method of determining N2O **emissions** ~~concentration~~)	98.56k4						X					
H - Cement Production	Annual organic carbon content of each **raw kiln feed or annual organic carbon content of each raw** material	98.86b12		X									
H - Cement Production	Annual consumption of each **raw kiln feed or annual consumption of each** raw materials	98.86b13		X									
H - Cement Production	**Method used to determine the monthly clinker production from each kiln reported under (b)(2) of this section**	**98.86b15**						**X**					
H - Cement Production	**Monthly kiln-specific clinker factors (if used) for each kiln**	**98.86b15**		**X**									
K- Ferroalloy Production	Annual production by **product from each EAF (tons).**	98.116b								X			
K- Ferroalloy Production	Total number of EAFS used for production of ferroalloy products ~~reported in paragraph (a)(4) of this section~~	98.116c				X							
K- Ferroalloy Production	Tier 4 Calculation Methodology reporting requirements specified under §98.3**7** ~~6~~[1]	98.116d											
K- Ferroalloy Production	Annual process CO_2 emissions from EAFs used for the production of any ferroalloy **product identified in §98.110** ~~listed in Table K-1~~	98.116d1			X								
K- Ferroalloy Production	Annual process CO_2 emissions from EAFs used for the production of any ferroalloy **product identified in §98.110** ~~listed in Table K-1~~	98.116e1			X								
N - Glass Production	Tier 4 Calculation Methodology reporting requirements specified under §98.3**7**~~6~~[1]	98.146a											
N - Glass Production	Annual quantity of glass produced **by each glass melting furnace**	98.146a2								X			
N - Glass Production	**Annual quantity of glass produced for all furnaces combined**	**98.146a2**								**X**			

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Subpart	**Data Element**	**Reporting Section**	**Facility and Unit Identifier Information**	**Inputs to Emission Equations**	**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 Emisison 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 Specifc & Vendor Data Submitted in BAMM Extension Requests**
Proposed Confidentiality Determination			Emission Data (made available to the public)	Emission Data (made available to the public)	Emission Data (made available to the public)	Not CBI	Not CBI	Emission Data (made available to the public)	Not CBI	CBI	CBI	Emission Data (made available to the public)	CBI
N - Glass Production	Method used to determine the fraction of calcination ~~(percentage expressed as a decimal)~~	98.146b7							X				
N - Glass Production	Number of times in the reporting year that missing data procedures were followed to measure monthly quantities of carbonate-based raw materials **for any continuous glass melting furnace (months)**	98.146b9										X	
N - Glass Production	Number of times in the reporting year that missing data procedures were followed to measure mass fraction of the carbonate-based minerals **for any continuous glass melting furnace (months)**	98.146b9										X	
O- HCFC22 Production and HFC-23 Destruction	Annual mass of HFC-23 fed into the **destruction device** ~~thermal oxidizer~~	98.156b1		X									
O- HCFC22 Production and HFC-23 Destruction	Annual mass of HFC-23 emitted from the **destruction device** ~~thermal oxidizer~~	98.156b3			X								
O- HCFC22 Production and HFC-23 Destruction	**Concentration (mass fraction) of HFC-23 measured at the outlet of the destruction device during the facility's annual HFC-23 concentrations at the outlet of the device Each HFC-23 destruction facility.**	**98.156c**					**X**						
O- HCFC22 Production and HFC-23 Destruction	**If the HFC-23 concentration measured pursuant to §98.154(l) is greater than that measured during the performance test that is the basis for the destruction efficiency (DE), specify whether §98.154(l)(1) or §98.154(l)(2) has been used for the calculation Each HFC-23 destruction facility.**	**98.156d**						**X**					
O- HCFC22 Production and HFC-23 Destruction	**If the HFC-23 concentration measured pursuant to §98.154(l) is greater than that measured during the performance test that is the basis for the destruction efficiency (DE)**, report flow rate of HFC-23 being fed into the destruction device in kg/hr.	98.156**d1**~~c1~~		X									

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Proposed Confidentiality Determination			Emission Data (made available to the public)	Emission Data (made available to the public)	Emission Data (made available to the public)	Not CBI	Not CBI	Emission Data (made available to the public)	Not CBI	CBI	CBI	Emission Data (made available to the public)	CBI
O- HCFC22 Production and HFC-23 Destruction	**If the HFC-23 concentration measured pursuant to §98.154(l) is greater than that measured during the performance test that is the basis for the destruction efficiency (DE),** report concentration (mass fraction) of HFC-23 at the outlet of the destruction device in Kg/hr	98.156**d2** ~~c2~~					X						
O- HCFC22 Production and HFC-23 Destruction	**If the HFC-23 concentration measured pursuant to §98.154(l) is greater than that measured during the performance test that is the basis for the destruction efficiency (DE),** report flow rate at the outlet of the destruction device in kg/hr.	98.156**d3**~~c3~~		X									
O- HCFC22 Production and HFC-23 Destruction	**If the HFC-23 concentration measured pursuant to §98.154(l) is greater than that measured during the performance test that is the basis for the destruction efficiency (DE), report e**mission rate **(in kg/hour)** calculated from the **paragraphs (d)(2) and (d)(3) of this section.**	98.156**d4**~~c4~~		X									
O- HCFC22 Production and HFC-23 Destruction	**If the HFC-23 concentration measured pursuant to §98.154(l) is greater than that measured during the performance test that is the basis for the destruction efficiency (DE), report the destruction efficiency (DE) calculated from paragraphs (d)(1) and (d)(4) of this section.**	**98.156d5**		**X**									
O- HCFC22 Production and HFC-23 Destruction	(Once time report) Destruction efficiency (DE) **(by March 31, 2011 or within 60 days of commencing HFC-23 destruction).**	98.156e1		X									
O- HCFC22 Production and HFC-23 Destruction	(One time report) Methods used to determine destruction efficiency **(by March 31, 2011 or within 60 days of commencing HFC-23 destruction)**	98.156e2							X				

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Subpart	**Data Element**	**Reporting Section**	**Facility and Unit Identifier Information**	**Inputs to Emission Equations**	**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 Emisison 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 Specifc & Vendor Data Submitted in BAMM Extension Requests**
Proposed Confidentiality Determination			Emission Data (made available to the public)	Emission Data (made available to the public)	Emission Data (made available to the public)	Not CBI	Not CBI	Emission Data (made available to the public)	Not CBI	CBI	CBI	Emission Data (made available to the public)	CBI
O- HCFC22 Production and HFC-23 Destruction	(One time report) Methods used to record the mass of HFC-23 destroyed **(by March 31, 2011 or within 60 days of commencing HFC-23 destruction)**	98.156e3							X				
O- HCFC22 Production and HFC-23 Destruction	(One time report) Name of other relevant federal or state regulations that may apply to the destruction process **(by March 31, 2011 or within 60 days of commencing HFC-23 destruction)**	98.156e4				X							
P - Hydrogen Production	Annual ~~process~~ CO_2 emissions	98.166a1			X								
P - Hydrogen Production	Annual ~~process~~ CO_2 emissions	98.166b1			X								
P - Hydrogen Production	~~Quarterly q~~**Q**uantity of CO_2 collected and transferred off site in either gas, liquid, or solid forms ~~(kg)~~, following the requirements of subpart PP[2]	98.166c											
Q - Iron and Steel Production	Tier 4 Calculation Methodology reporting requirements specified under §98.3**7** ~~6~~[1]	98.176c											
Q - Iron and Steel Production	How emissions were determined, i.e., carbon mass balance or site-specific emission factor method	98.176d						X					
Q - Iron and Steel Production	Annual volume of **each type of** gaseous fuel used to determine CO_2 emissions **(reported separately for each type in standard cubic feet)**	98.176e3		X									
Q - Iron and Steel Production	Annual volume of **each type of** liquid fuel used to determine CO_2 emissions **(reported separately for each type in gallons)**	98.176e3		X									
Q - Iron and Steel Production	Annual mass (in metric tons) of **each** ~~all~~ other process inputs and outputs used to determine CO_2 emissions	98.176e3		X									
Q - Iron and Steel Production	**The annual amount of coal charged to the coke ovens (in metric tons).**	**98.176g**		**X**									

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Subpart	**Data Element**	**Reporting Section**	**Facility and Unit Identifier Information**	**Inputs to Emission Equations**	**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 Emisison 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 Specifc & Vendor Data Submitted in BAMM Extension Requests**
Proposed Confidentiality Determination			Emission Data (made available to the public)	Emission Data (made available to the public)	Emission Data (made available to the public)	Not CBI	Not CBI	Emission Data (made available to the public)	Not CBI	CBI	CBI	Emission Data (made available to the public)	CBI
Q - Iron and Steel Production	**For flares burning coke oven gas or blast furnace gas, the information specified in §98.256(e) of subpart Y (Petroleum Refineries) of this part.[1]**	**98.176h**											
S - Lime Manufacturing	Method used to determine the quantity of lime **that is produced and** sold	98.196a1							X				
S - Lime Manufacturing	Method used to determine the quantity of **calcined** lime byproduct/waste sold**, by product type.**	98.196a2							X				
S - Lime Manufacturing	Beginning of year inventories for lime product **that is produced, by type.**	98.196a3								X			
S - Lime Manufacturing	End of year inventories for lime product **that is produced, by type.**	98.196a3								X			
S - Lime Manufacturing	Beginning of year inventories for **calcined** lime byproducts/wastes **sold, by type.**	98.196a4								X			
S - Lime Manufacturing	End of year inventories for **calcined** lime byproducts/wastes **sold, by type**	98.196a4								X			
S - Lime Manufacturing	Annual amount of **calcined** lime byproduct/waste sold, by type	98.196a5								X			
S - Lime Manufacturing	Monthly emission factors for lime type **produced**	98.196b2		X									
S - Lime Manufacturing	Monthly emission factors for **calcined** lime byproduct/waste by lime type **that is sold**	98.196b3		X									
S - Lime Manufacturing	Standard method used to determine chemical compositions of limes of each lime type **produced**	98.196b4							X				
S - Lime Manufacturing	Standard method used to determine chemical compositions of **each calcined** lime byproduct/waste type.	98.196b4							X				
S - Lime Manufacturing	Monthly results of chemical composition analysis of each **type of** lime product **produced**	98.196b5		**X**						~~X~~			
S - Lime Manufacturing	Monthly results of chemical composition analysis of **each type of calcined** lime byproducts/wastes sold	98.196b5		X									

Table A-2: Direct Emitters: Technical Corrections, Clarifying and Other Amendments to Certain Provisions of the Greenhouse Gas Reporting Rule (75 FR 33950, June 15, 2010)

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Footnotes:

[1] This data element is not assigned to a category because the data element refers to a reporting requirement specified under another subpart that has already been assigned to a category under that subpart.

			Category										
Subpart	**Data Element**	**Reporting Section**	**Facility and Unit Identifier Information**	**Inputs to Emission Equations**	**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 Emisison 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 Specifc & Vendor Data Submitted in BAMM Extension Requests**
Proposed Confidentiality Determination			Emission Data (made available to the public)	Emission Data (made available to the public)	Emission Data (made available to the public)	Not CBI	Not CBI	Emission Data (made available to the public)	Not CBI	CBI	CBI	Emission Data (made available to the public)	CBI
S - Lime Manufacturing	Annual results of chemical composition analysis of **calcined** lime byproducts/wastes **that is** not sold	98.196b6		X									
S - Lime Manufacturing	Method used to determine the quantity of **calcined** lime **produced and/or lime** sold	98.196b7							X				
S - Lime Manufacturing	Method used to determine the quantity of **calcined** lime byproduct/waste sold	98.196b9							X				
S - Lime Manufacturing	Monthly amount of **calcined** lime byproduct/waste sold	98.196b10		X									
S - Lime Manufacturing	Annual amount of **calcined** lime byproduct/waste **that is** not sold**, by type**	98.196b11		X									
S - Lime Manufacturing	Monthly **weight or** mass of lime type produced	98.196b12		X									
S - Lime Manufacturing	Beginning of year inventories for lime products **that is produced**	98.196b13								X			
S - Lime Manufacturing	End of year inventories for lime products **that is produced**	98.196b13								X			
S - Lime Manufacturing	Beginning of year inventories for **calcined** lime byproducts/wastes **sold**.	98.196a14								X			
S - Lime Manufacturing	End of year inventories for **calcined** lime byproducts/wastes **sold**	98.196a14								X			
V - Nitric Acid Production	Number of **different N2O** abatement technologies **per nitric acid train "t"** ~~(if applicable)~~	98.226g				X							
V - Nitric Acid Production	Emission factor calculated for ~~each facility~~ **each train**	98.226m1		X									
V - Nitric Acid Production	Test method used for performance test for each ~~facility~~ **train**	98.226m2							X				
V - Nitric Acid Production	Production rate per test run during performance test for each ~~facility~~ **train.**	98.226m3		X									
V - Nitric Acid Production	N_2O concentration per test run during performance test for each ~~facility~~ **train.**	98.226m4		X									
V - Nitric Acid Production	Volumetric flow rate per test run during performance test each ~~facility~~ **train**.	98.226m5		X									
V - Nitric Acid Production	Number of test runs during performance test each ~~facility~~ **train**.	98.226m6		X									

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Footnotes:

[1] This data element is not assigned to a category because the data element refers to a reporting requirement specified under another subpart that has already been assigned to a category under that subpart.

			Category											
Subpart	**Data Element**	**Reporting Section**	**Facility and Unit Identifier Information**	**Inputs to Emission Equations**	**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 Emisison 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 Specifc & Vendor Data Submitted in BAMM Extension Requests**
Proposed Confidentiality Determination			Emission Data (made available to the public)	Emission Data (made available to the public)	Emission Data (made available to the public)	Not CBI	Not CBI	Emission Data (made available to the public)	Not CBI	CBI	CBI	Emission Data (made available to the public)	CBI
V - Nitric Acid Production	Number of times in the reporting year that a performance test had to be repeated each ~~facility~~ **train**.	98.226m7					X						
V - Nitric Acid Production	Name of alternative method of determining N_2O concentration each ~~facility~~ **train** for which Administrator approval was requested for an alternative method of determining N2O **emissions** ~~concentration~~	98.226n1						X					
V - Nitric Acid Production	Description of alternative method of determining N_2O concentration each ~~facility~~ **train** for which Administrator approval was requested for an alternative method of determining N2O **emissions** ~~concentration~~	98.226n2						X					
V - Nitric Acid Production	Request date of approval for alternative method for determining N_2O concentration for each ~~facility~~ **train** for which Administrator approval was requested for an alternative method of determining N2O **emissions** ~~concentration~~)	98.226n3						X					
V - Nitric Acid Production	Approval date of alternative method for determining N_2O concentration for each facility **train** for which Administrator approval was requested for an alternative method of determining N2O **emissions** ~~concentration~~	98.226n4						X					
Z - Phosphoric Acid Production	Annual arithmetic average percent inorganic carbon in phosphate rock from monthly records **(percent by weight, expressed as a decimal fraction)**	98.266c									X		
Z - Phosphoric Acid Production	**Annual process CO_2 emissions from each phosphate acid production facility (metric tons)**	**98.266f9**			**X**								
CC - Soda Ash Manufacturing	Annual consumption of trona or liquid alkaline feedstock (~~metric~~ tons)	98.296a1									X		
CC - Soda Ash Manufacturing	Annual production of soda ash **for each manufacturing line (tons)**	98.296b3								X			
CC - Soda Ash Manufacturing	Monthly production of soda ash (~~metric~~ tons)	98.296b6		X									

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Footnotes:

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			Category											
Subpart	**Data Element**	**Reporting Section**	**Facility and Unit Identifier Information**	**Inputs to Emission Equations**	**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 Emisison 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 Specifc & Vendor Data Submitted in BAMM Extension Requests**
Proposed Confidentiality Determination			Emission Data (made available to the public)	Emission Data (made available to the public)	Emission Data (made available to the public)	Not CBI	Not CBI	Emission Data (made available to the public)	Not CBI	CBI	CBI	Emission Data (made available to the public)	CBI
CC - Soda Ash Manufacturing	Stack gas volumetric flow rate **during performance test** ~~per minute~~ (dscfm) **for each manufacturing line or stack.**	98.296b10i		X									
CC - Soda Ash Manufacturing	Hourly CO_2 concentration **during performance test** (percent CO_2) **for each manufacturing line or stack**	98.296b10ii		X									
CC - Soda Ash Manufacturing	CO_2 emission factor of process vent flow from mine water **for each manufacturing line or stack**	98.296b10iii		X									
CC - Soda Ash Manufacturing	CO_2 emission mass emission rate **during performance test** (metric tons/hour) **for each manufacturing line or stack.**	98.296b10iv		X									
CC - Soda Ash Manufacturing	Average process vent flow from mine water stripper/evaporator during performance test **for each manufacturing line or stack**	98.296b10v		X									
CC - Soda Ash Manufacturing	Annual process vent flow rate from mine stripper/evaporator **for each manufacturing line or stack**	98.296b10vi		X									
~~CC - Soda Ash Manufacturing~~	~~Number of times missing data procedures were used for stack gas volumetric flow rate during performance test~~	~~98.296b11iv~~										~~X~~	
~~CC - Soda Ash Manufacturing~~	~~Number of times missing data procedures were used for hourly CO2 concentration~~	~~98.296b11v~~										~~X~~	
~~CC - Soda Ash Manufacturing~~	~~Number of times missing data procedures were used for average vent process vent flow rate from mine stripper/evaporator during performance test~~	~~98.296b11vi~~										~~X~~	
EE - Titanium Dioxide Production	Monthly carbon content factor of petroleum coke ~~from the supplier~~ (percent by weight expressed as a decimal fraction)	98.316b9		X									
EE - Titanium Dioxide Production	Carbon content for carbon-containing waste **for each process line** (percent by weight expressed as a decimal fraction).	98.316b11								X			
GG - Zinc Production	Tier 4 Calculation Methodology reporting requirements specified under §98.3~~7~~ 6[1]	98.336a											
GG - Zinc Production	~~Kiln i~~ Identification number	98.336b1	X										

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			Category										
Subpart	**Data Element**	**Reporting Section**	**Facility and Unit Identifier Information**	**Inputs to Emission Equations**	**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 Emisison 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 Specifc & Vendor Data Submitted in BAMM Extension Requests**
Proposed Confidentiality Determination			Emission Data (made available to the public)	Emission Data (made available to the public)	Emission Data (made available to the public)	Not CBI	Not CBI	Emission Data (made available to the public)	Not CBI	CBI	CBI	Emission Data (made available to the public)	CBI
GG - Zinc Production	Carbon content of carbon-containing input materials charged to kilns or furnace (including zinc bearing material, flux materials, and other carbonaceous materials) from the annual carbon analysis **or from information provided by the material supplier)** for each kiln or furnace (percent by weight, expressed as a decimal fraction)	98.336b7		X									
GG - Zinc Production	Carbon content of the carbon electrodes used in each furnace from the annual carbon analysis **or from information provided by the material supplier)** (percent by weight, expressed as a decimal fraction)	98.336b10		X									
HH - Municipal Solid Waste Landfills	Indication of whether leachate recirculation is used **during the reporting year**	98.346a					X						
HH - Municipal Solid Waste Landfills	**Typical frequency of leachate use over the past 10 years (e.g., used several times a year for the past 10 years, used at least once a year for the past 10 years, used occasionally but not every year over the past 10 years, not used)**	**98.346a**					**X**						
HH - Municipal Solid Waste Landfills	**An indication as to whether scales are present at the landfill**	**98.346a**				**X**							
HH - Municipal Solid Waste Landfills	Waste disposal quantity for each year of landfilling **required to be included when using Equation HH-1 of this subpart (in metric tons, wet weight)**	98.346a		X									
HH - Municipal Solid Waste Landfills	Method for estimating **reporting year and historical** waste disposal quantity~~y~~**ies**	98.346b						**X**					
HH - Municipal Solid Waste Landfills	**Range of years the estimation method is applied**	**98.346b**						**X**					
HH - Municipal Solid Waste Landfills	**For years when waste quantity data are determined using the methods in §98.343(a)(3), report the quantity of waste determined using the methods in §98.343(a)(3)(i)**	**98.346b**		**X**				**X**					

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			Category											
Subpart	**Data Element**	**Reporting Section**	**Facility and Unit Identifier Information**	**Inputs to Emission Equations**	**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 Emisison 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 Specifc & Vendor Data Submitted in BAMM Extension Requests**
Proposed Confidentiality Determination			Emission Data (made available to the public)	Emission Data (made available to the public)	Emission Data (made available to the public)	Not CBI	Not CBI	Emission Data (made available to the public)	Not CBI	CBI	CBI	Emission Data (made available to the public)	CBI
HH - Municipal Solid Waste Landfills	**For years when waste quantity data are determined using the methods in §98.343(a)(3), report the quantity of waste determined using the methods in §98.343(a)(3)(ii)**	**98.346b**		**X**				**X**					
HH - Municipal Solid Waste Landfills	**For historical waste disposal quantities that were not determined using the methods in §98.343(a)(3), report the population served by the landfill for each year the Equation HH-2 of this subpart is applied**	**98.346b**		**X**				**X**					
HH - Municipal Solid Waste Landfills	**For historical waste disposal quantities that were not determined using the methods in §98.343(a)(3), report the value of landfill capacity (LFC) used in the calculation (For open landfills using Equation HH-3 of this subpart)**	**98.346b**		**X**				**X**					
HH - Municipal Solid Waste Landfills	**Each waste type used to calculate CH4 generation using Equation HH-1, report the methane conversion factor (MCF) values used in the calculations**	**98.346d1**		**X**									
HH - Municipal Solid Waste Landfills	**Each waste type used to calculate CH4 generation using Equation HH-1, report the fraction of DOC dissimilated (DOCF) values used in the calculations**	**98.346d1**		**X**									
HH - Municipal Solid Waste Landfills	**Identification of the type of c**over **material used (as either organic cover, clay cover, sand cover, or other soil mixtures).** ~~types applicable to the landfill~~	98.346f					X						
HH - Municipal Solid Waste Landfills	**If multiple cover types are used,** report surface area **associated with** each cover type used to calculate the average oxidation fraction	98.346f		X									
~~HH - Municipal Solid Waste Landfills~~	~~Oxidation fraction for cover types used to calculate the average oxidation fraction~~	~~98.346f~~		~~X~~									
~~HH - Municipal Solid Waste Landfills~~	~~Average oxidation fraction used in the calculations~~	~~98.346f~~		~~X~~									

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			Category										
Subpart	**Data Element**	**Reporting Section**	**Facility and Unit Identifier Information**	**Inputs to Emission Equations**	**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 Emisison 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 Specifc & Vendor Data Submitted in BAMM Extension Requests**
Proposed Confidentiality Determination			Emission Data (made available to the public)	Emission Data (made available to the public)	Emission Data (made available to the public)	Not CBI	Not CBI	Emission Data (made available to the public)	Not CBI	CBI	CBI	Emission Data (made available to the public)	CBI
HH - Municipal Solid Waste Landfills	**Each landfill without a gas collection system, indicate whether passive vents and/or passive flares (vents or flares that are not considered part of the gas collection system as defined in §98.6) are present at this landfill.**	**98.346h**				**X**							
HH - Municipal Solid Waste Landfills	Total volumetric flow of landfill gas collected for destruction **for the reporting year** (cubic feet at 520 R)	98.346i1		X									
HH - Municipal Solid Waste Landfills	**Annual average** CH_4 concentration of landfill gas collected for destruction	98.346i2		X									
HH - Municipal Solid Waste Landfills	**For each landfill with a gas collection system: Monthly average pressure at which flow is measured for landfill gas collected for destruction, or statement that pressure is incorporated into internal calculations run by the monitoring equipment Monthly average temperature and pressure for each month at which flow is measured for landfill gas collected for destruction, or statement that temperature and/or pressure is incorporated into internal calcuations run by the monitoring equipment.**	**98.346i3**		**X**									
HH - Municipal Solid Waste Landfills	**For each landfill with a gas collection system: An indication as to whether flow was measured on a wet or dry basis**	**98.346i4**						**X**					
HH - Municipal Solid Waste Landfills	**If required for Equation HH-4:** Monthly average **moisture content** ~~pressure~~ at for each month at which flow is measured for landfill gas collected for destruction. ~~, or statement that temperature is incorporated into internal calculations run by the monitoring equipment~~	98.346i4		X									

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[1] This data element is not assigned to a category because the data element refers to a reporting requirement specified under another subpart that has already been assigned to a category under that subpart.

			Category											
Subpart	**Data Element**	**Reporting Section**	**Facility and Unit Identifier Information**	**Inputs to Emission Equations**	**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 Emisison 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 Specifc & Vendor Data Submitted in BAMM Extension Requests**
Proposed Confidentiality Determination			Emission Data (made available to the public)	Emission Data (made available to the public)	Emission Data (made available to the public)	Not CBI	Not CBI	Emission Data (made available to the public)	Not CBI	CBI	CBI	Emission Data (made available to the public)	CBI
HH - Municipal Solid Waste Landfills	Annual ~~operting~~ **operating** hours for the backup destruction device	98.346i5		X									
HH - Municipal Solid Waste Landfills	Description of the gas collection system (manufacture**r**, capacity, **and** number of wells, ~~etc~~)	98.346i7				X							
HH - Municipal Solid Waste Landfills	**For each landfill with a gas collection system: An indication of whether passive vents and/or passive flares (vents or flares that are not considered part of the gas collection system as defined in §98.6) are present at the landfill.**	**98.346i7**				**X**							

Appendix B:

Data Category Assignments for Data Elements in Supplier Source Categories

Table B-1: List of Data Elements in Proposed and Final Supplier Subparts

Table B-2: Suppliers: Technical Corrections, Clarifying and Other Amendments to Certain Provisions of the Greenhouse Gas Reporting Rule (75 FR 33950, June 15, 2010)

Table B-1: List of Data Elements in Proposed and Final Supplier Subparts

Key:

C = CBI

X= Not CBI

Footnotes:

[1] Data element is assigned to both the "Greenhouse Gases Reported" and "Production/Throughput" bins because the product is also the greenhouse gas reported.

			Category										
Subpart	Data Element	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
A - General Reporting Requirements	Facility name or supplier name	98.3c1	X										
A - General Reporting Requirements	Physical street address of the facility or supplier including the city, state, and zip code	98.3c1	X										
A - General Reporting Requirements	Year and months covered by the report	98.3c2	X										
A - General Reporting Requirements	Date of submittal of the report	98.3c3	X										
A - General Reporting Requirements	Total quantity of GHGs (CO2e)	98.3c5i		X									
A - General Reporting Requirements	Quantity of each GHG	98.3c5ii		X									
A - General Reporting Requirements	A written explanation, as required under §98.3(e)	98.3c6					X						
A - General Reporting Requirements	A brief description of each “best available monitoring method” used (see 98.3d)	98.3c7					X						
A - General Reporting Requirements	Parameter used during the “best available monitoring method” (see 98.3d)	98.3c7					X						
A - General Reporting Requirements	Time period during which the “best available monitoring method” was used” (see 98.3d)	98.3c7					X						
A - General Reporting Requirements	Data elements for which a missing data procedure was used according to the procedures of an applicable subpart	98.3c8									X		
A - General Reporting Requirements	Total number of hours in the year that a missing data procedure was used	98.3c8									X		
A - General Reporting Requirements	A signed and dated certification statement provided by the designated representative of the owner or operator, according to the requirements of §98.4(e)(1)	98.3c9	X										
A - General Reporting Requirements	Identification of the facility for the certificate of representation	98.4i	X										

Table B-1: List of Data Elements in Proposed and Final Supplier Subparts

Key:

C = CBI

X= Not CBI

Footnotes:

[1] Data element is assigned to both the "Greenhouse Gases Reported" and "Production/Throughput" bins because the product is also the greenhouse gas reported.

			Category										
Subpart	Data Element	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
A - General Reporting Requirements	Name of the designated representative	98.4i	X										
A - General Reporting Requirements	Address of the designated representative	98.4i	X										
A - General Reporting Requirements	E-mail address of the designated representative	98.4i	X										
A - General Reporting Requirements	Telephone numberof the designated representative	98.4i	X										
A - General Reporting Requirements	Facsimile transmission numberof the designated representative	98.4i	X										
A - General Reporting Requirements	Name of the alternate designated representative	98.4i	X										
A - General Reporting Requirements	Address of the alternate designated representative	98.4i	X										
A - General Reporting Requirements	E-mail address of the alternate designated representative	98.4i	X										
A - General Reporting Requirements	Telephone number of the alternate designated representative	98.4i	X										
A - General Reporting Requirements	Facsimile transmission number of the alternate designated representative	98.4i	X										
A - General Reporting Requirements	A list of the owners and operators of the facility	98.4i	X										
A - General Reporting Requirements	Certification statements in 98.4(i)(4)	98.4i	X										
A - General Reporting Requirements	Signature of the designated representative and date signed	98.4i	X										
A - General Reporting Requirements	Signature of the alternate designated representative (if any) and date signed	98.4i	X										
A - BAMM Extension Request	Name of person to contact about the request	98.3d2	X										
A - BAMM Extension Request	Address of contact person	98.3d2	X										
A - BAMM Extension Request	Telephone number of contact person	98.3d2	X										
A - BAMM Extension Request	E-mail address of contact person	98.3d2	X										
A - BAMM Extension Request	Date request was signed	98.3d2	X										
A - BAMM Extension Request	Date request was submitted	98.3d2	X										

Table B-1: List of Data Elements in Proposed and Final Supplier Subparts

Key:

C = CBI

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Footnotes:

[1] Data element is assigned to both the "Greenhouse Gases Reported" and "Production/Throughput" bins because the product is also the greenhouse gas reported.

			Category										
Subpart	Data Element	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
A - BAMM Extension Request	Facility name	98.3d2	X										
A - BAMM Extension Request	Physical address of facility	98.3d2	X										
A - BAMM Extension Request	Unit or group ID	98.3d2iiA	X										
A - BAMM Extension Request	Common pipe or common stack ID	98.3d2iiA	X										
A - BAMM Extension Request	Type of unit (e.g., boiler, process heater, cement kiln)	98.3d2iiA	X										
A - BAMM Extension Request	Total number of units included in application	98.3d2iiA	X										
A - BAMM Extension Request	Description of monitoring equipment (e.g., liquid flow meter)	98.3d2iiA	X										
A - BAMM Extension Request	Parameter for which instrumentation is needed (e.g., fuel combusted)	98.3d2					X						
A - BAMM Extension Request	Rule subpart that requires monitoring of parameter	98.3d2iiB					X						
A - BAMM Extension Request	Rule citation that requires monitoring of parameter	98.3d2iiB					X						
A - BAMM Extension Request	Location of unit with monitor or sampling location (e.g., fuel flow diagram)	98.3d2iiA											C
A - BAMM Extension Request	Reason for the extension request	98.3d2iiC				X							
A - BAMM Extension Request	Date equipment ordered	98.3d2iiD				X							
A - BAMM Extension Request	Information on alternative suppliers and alternative delivery dates investigated	98.3d2iiD											C
A - BAMM Extension Request	Backorder notices or unexpected delays information from supplier	98.3d2iiD				X							
A - BAMM Extension Request	Supporting documentation demonstrating that it is not practicable to isolate the equipment and install monitoring instrument without a full process unit shutdown.	98.3d2iiE											C
A - BAMM Extension Request	Date of the most recent process unit shutdown	98.3d2iiE											C
A - BAMM Extension Request	Frequency of shutdowns for this process unit	98.3d2iiE											C

Table B-1: List of Data Elements in Proposed and Final Supplier Subparts

Key:

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			Category										
Subpart	Data Element	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
A - BAMM Extension Request	Date of the next planned shutdown during which the monitoring equipment can be installed	98.3d2iiE											C
A - BAMM Extension Request	Was there a shutdown or is there a planned process unit shutdown between October 30, 2009 and April 1, 2010?	98.3d2iiE											C
A - BAMM Extension Request	If planned shutdown occurred between October 30, 2009 and April 1, 2010, explanation of why equipment was not or cannot be obtained and installed during the shutdown	98.3d2iiE				X							
A - BAMM Extension Request	Description of the specific actions the facility will take to obtain and install the equipment as soon as reasonably feasible	98.3d2iiF				X							
A - BAMM Extension Request	Planned installation date.	98.3d2iiF				X							
A - BAMM Extension Request	Anticipated date on which facility will begin using the full monitoring methods in the rule	98.3d2iiF				X							
A - General Reporting Requirments (Proposed Amendments, 75 FR 18455, April 12, 2010)	Primary NAICS Code	98.3c10	X										
A - General Reporting Requirments (Proposed Amendments, 75 FR 18455, April 12, 2010)	Additional NAICS Codes	98.3c10	X										
A - General Reporting Requirments (Proposed Amendments, 75 FR 18455, April 12, 2010)	Legal Name(s) of the highest-level United States parent company(s) as of December 31 of each reporting year.	98.3c10	X										
A - General Reporting Requirments (Proposed Amendments, 75 FR 18455, April 12, 2010)	Physical address(es) of the highest-level United States parent company(s) as of December 31 of each reporting year.	98.3c10	X										

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A - General Reporting Requirments (Proposed Amendments, 75 FR 18455, April 12, 2010)	Percentage of ownership interest for each parent company as of December 31 of each reporting year.	98.3c10	X										
LL - Suppliers of Coal-based Liquid Products	Annual quantity by product in Table MM-1 (entering the coal-to-liquid facility) by each quantity measurement standard method or other industry standard practice used	98.386a1							C				
LL - Suppliers of Coal-based Liquid Products	Annual quantity by product in Table MM-1 (entering the coal-to-liquid facility)	98.386a2							C				
LL - Suppliers of Coal-based Liquid Products	Percent of the volume of the feedstock that is petroleum-based	98.386a3							C				
LL - Suppliers of Coal-based Liquid Products	Standard method or other industry standard practice used to measure each quantity of petroleum product or NGL reported in 98.386a1	98.386a4					X						
LL - Suppliers of Coal-based Liquid Products	Annual quantity by product in Table MM-1 (leaving the coal-to-liquid facility) by each quantity measurement standard method or other industry standard practice used	98.386a5						C					
LL - Suppliers of Coal-based Liquid Products	Annual quantity by product in Table MM-1 (leaving the coal-to-liquid facility)	98.386a6						C					
LL - Suppliers of Coal-based Liquid Products	Percent of the volume of the feedstock in each product that is petroleum-based	98.386a7						C					
LL - Suppliers of Coal-based Liquid Products	Standard method or other industry standard practice used to measure each quantity of petroleum product or NGL reported in 98.386a5	98.386a8					X						
LL - Suppliers of Coal-based Liquid Products	Number of samples collected according to §98.394(c)	98.386a9i					X						

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LL - Suppliers of Coal-based Liquid Products	Sampling standard method used	98.386a9ii					X						
LL - Suppliers of Coal-based Liquid Products	Carbon share test results	98.386a9iii							C				
LL - Suppliers of Coal-based Liquid Products	Standard method used to test carbon share	98.386a9iv					X						
LL - Suppliers of Coal-based Liquid Products	Calculated CO_2 emissions factor	98.386a9v			C								
LL - Suppliers of Coal-based Liquid Products	Density test results	98.386a10i							C				
LL - Suppliers of Coal-based Liquid Products	Standard method used to test density	98.386a10ii					X						
LL - Suppliers of Coal-based Liquid Products	Number of samples collected according to §98.394(c)	98.386a11i					X						
LL - Suppliers of Coal-based Liquid Products	Sampling standard method used	98.386a11ii					X						
LL - Suppliers of Coal-based Liquid Products	Carbon share test results	98.386a11iii						C					
LL - Suppliers of Coal-based Liquid Products	Standard method used to test carbon share	98.386a11iv					X						
LL - Suppliers of Coal-based Liquid Products	Calculated CO_2 emissions factor	98.386a11v			C								
LL - Suppliers of Coal-based Liquid Products	Density test results	98.386a12i						C					
LL - Suppliers of Coal-based Liquid Products	Standard method used to test density	98.386a12ii					X						
LL - Suppliers of Coal-based Liquid Products	Annual quantity by specific type of biomass that is to be co-processed with fossil fuel-based feedstock (entering the coal-to-liquid facility) by each quantity measurement standard method or other industry standard practice used	98.386a13							C				
LL - Suppliers of Coal-based Liquid Products	Annual quantity by specific type of biomass that is to be co-processed with fossil fuel-based feedstock (entering the coal-to-liquid facility)	98.386a14							C				

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LL - Suppliers of Coal-based Liquid Products	Each standard method or other industry standard practice used to measure each percentage	98.386a15					X						
LL - Suppliers of Coal-based Liquid Products	CO_2 emissions that would result from the complete combustion or oxidation of each feedstock	98.386a16		C									
LL - Suppliers of Coal-based Liquid Products	CO_2 emissions that would result from the complete combustion or oxidation of each product (leaving the coal-to-liquid facility)	98.386a17		C									
LL - Suppliers of Coal-based Liquid Products	Annual CO_2 emissions that would result from the complete combustion or oxidation of each type of biomass feedstock co-processed with fossil fuel-based feedstocks	98.386a18		C									
LL - Suppliers of Coal-based Liquid Products	Annual CO_2 emissions that would result from the complete combustion or oxidation of all products	98.386a19		X									
LL - Suppliers of Coal-based Liquid Products	Annual quantity of bulk NGLs received for processing during the reporting year	98.386a20							C				
LL - Suppliers of Coal-based Liquid Products	Annual quantity for each product in Table MM-1 by each quantity measurement standard method or other industry standard practice used	98.386b1						X					
LL - Suppliers of Coal-based Liquid Products	Annual quantity for each product in Table MM-1	98.386b2						X					
LL - Suppliers of Coal-based Liquid Products	Percent of the volume of the petroleum product or NGL from table MM-1 that is petroleum-based	98.386b3						X					
LL - Suppliers of Coal-based Liquid Products	Standard method or other industry standard practice used to measure each quantity of petroleum product or NGL reported in 98.386b1	98.386b4					X						

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Subpart	Data Element	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
LL - Suppliers of Coal-based Liquid Products	Number of samples collected according to §98.394(c)	98.386b5i					X						
LL - Suppliers of Coal-based Liquid Products	Sampling standard method used	98.386b5ii					X						
LL - Suppliers of Coal-based Liquid Products	Carbon share test results	98.386b5iii						X					
LL - Suppliers of Coal-based Liquid Products	Standard method used to test carbon share	98.386b5iv					X						
LL - Suppliers of Coal-based Liquid Products	Calculated CO_2 emissions factor	98.386b5v			C								
LL - Suppliers of Coal-based Liquid Products	Density test results	98.386b6i						X					
LL - Suppliers of Coal-based Liquid Products	Standard method used to test density	98.386b6ii					X						
LL - Suppliers of Coal-based Liquid Products	CO_2 emissions that would result from the complete combustion or oxidation of each imported product reported in 98.386b2	98.386b7		X									
LL - Suppliers of Coal-based Liquid Products	Total sum of CO_2 emissions that would result from the complete combustion or oxidation of all imported products	98.386b8		X									
LL - Suppliers of Coal-based Liquid Products	Annual quantity for each product in Table MM-1 by each quantity measurement standard method or other industry standard practice used	98.386c1						C					
LL - Suppliers of Coal-based Liquid Products	Annual quantity for each product in Table MM-1	98.386c2						C					
LL - Suppliers of Coal-based Liquid Products	Percent of the volume of the petroleum product or NGL from table MM-1 that is petroleum-based	98.386c3						C					
LL - Suppliers of Coal-based Liquid Products	Standard method or other industry standard practice used to measure each quantity of petroleum product or NGL reported in 98.386c1	98.386c4					X						
LL - Suppliers of Coal-based Liquid Products	Number of samples collected according to §98.394(c)	98.386c5i					X						

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LL - Suppliers of Coal-based Liquid Products	Sampling standard method used	98.386bc5ii					X						
LL - Suppliers of Coal-based Liquid Products	Carbon share test results	98.386c5iii						C					
LL - Suppliers of Coal-based Liquid Products	Standard method used to test carbon share	98.386c5iv					X						
LL - Suppliers of Coal-based Liquid Products	Calculated CO_2 emissions factor	98.386c5v			C								
LL - Suppliers of Coal-based Liquid Products	Density test results	98.386c6i						C					
LL - Suppliers of Coal-based Liquid Products	Standard method used to test density	98.386c6ii					X						
LL - Suppliers of Coal-based Liquid Products	CO_2 emissions that would result from the complete combustion or oxidation of the exported product	98.386c7		C									
LL - Suppliers of Coal-based Liquid Products	Sum of CO_2 emissions that would result from the complete combustion oxidation of all exported products	98.386c8		X									
MM - Suppliers of Petroleum Products	Annual quantity for products in Table MM-1 (entering the refinery) by each quantity measurement standard method or other industry standard practice used	98.396a1							C				
MM - Suppliers of Petroleum Products	Annual quantity for products in Table MM-1 (entering the refinery)	98.396a2							C				
MM - Suppliers of Petroleum Products	Percent of the volume of the petroleum product or NGL from Table MM-1 that is petroleum-based	98.396a3						C					
MM - Suppliers of Petroleum Products	Standard method or other industry standard practice used to measure each quantity of petroleum product or NGL reported in 98.396a1	98.396a4					X						

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MM - Suppliers of Petroleum Products	Annual quantity for products in Table MM-1 (ex refinery gate) by each quantity measurement standard method or other industry standard practice used	98.396a5						C					
MM - Suppliers of Petroleum Products	Annual quantity for products in Table MM-1 (ex refinery gate)	98.396a6						C					
MM - Suppliers of Petroleum Products	Percent of the volume of the petroleum product or NGL from table MM-1 that is petroleum-based	98.396a7						C					
MM - Suppliers of Petroleum Products	Standard method or other industry standard practice used to measure each quantity of petroleum product or NGL reported in 98.396a5	98.396a8					X						
MM - Suppliers of Petroleum Products	Number of samples collected according to §98.394(c)	98.396a9i					X						
MM - Suppliers of Petroleum Products	Sampling standard method used	98.396a9ii					X						
MM - Suppliers of Petroleum Products	Carbon share test results	98.396a9iii							C				
MM - Suppliers of Petroleum Products	Standard method used to test carbon share	98.396a9iv					X						
MM - Suppliers of Petroleum Products	Calculated CO_2 emissions factor	98.396a9v			C								
MM - Suppliers of Petroleum Products	Density test results	98.396a10i							C				
MM - Suppliers of Petroleum Products	Standard method used to test density	98.396a10ii					X						
MM - Suppliers of Petroleum Products	Number of samples collected according to §98.394(c)	98.396a11i					X						
MM - Suppliers of Petroleum Products	Sampling standard method used	98.396a11ii					X						
MM - Suppliers of Petroleum Products	Carbon share test results in percent mass	98.396a11iii						C					
MM - Suppliers of Petroleum Products	Standard method used to test carbon share	98.396a11iv					X						
MM - Suppliers of Petroleum Products	Calculated CO_2 emissions factor	98.396a11v			C								

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MM - Suppliers of Petroleum Products	Density test results	98.396a12i						C					
MM - Suppliers of Petroleum Products	Standard method used to test density	98.396a12ii					X						
MM - Suppliers of Petroleum Products	Annual quantity of the biomass type that enters the refinery to be co-processed with petroleum feedstocks to produce a petroleum product reported in 98.396a6 by each quantity measurement standard method or other industry standard practice used	98.396a13							C				
MM - Suppliers of Petroleum Products	Annual quantity of the biomass type that enters the refinery to be co-processed with petroleum feedstocks to produce a petroleum product reported in 98.396a6	98.396a14							C				
MM - Suppliers of Petroleum Products	Each standard method or other industry standard practice used to measure each quantity of biomass reported in 98.396a13	98.396a15					X						
MM - Suppliers of Petroleum Products	CO_2 emissions that would result from the complete combustion or oxidation of each petroleum product and natural gas liquid (ex refinery gate) reported in 98.396a6	98.396a16		C									
MM - Suppliers of Petroleum Products	CO_2 emissions that would result from the complete combustion or oxidation of each feedstock reported in 98.396a2	98.396a17		C									
MM - Suppliers of Petroleum Products	CO_2 emissions that would result from the complete combustion or oxidation of each type of biomass feedstock co-processed with petroleum feedstocks reported in 98.396a13	98.396a18		C									

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MM - Suppliers of Petroleum Products	Sum of CO_2 emissions that would result from the complete combustion or oxidation of all products	98.396a19		X									
MM - Suppliers of Petroleum Products	Batch volume	98.396a20i							C				
MM - Suppliers of Petroleum Products	API gravity of the batch at the point of entry at the refinery	98.396a20ii							C				
MM - Suppliers of Petroleum Products	Sulfur content of the batch at the point of entry at the refinery	98.396a20iii							C				
MM - Suppliers of Petroleum Products	Country of origin of the batch	98.396a20iv							C				
MM - Suppliers of Petroleum Products	Quantity of bulk NGLs received for processing during the reporting year	98.396a21							C				
MM - Suppliers of Petroleum Products	Annual quantity by product in Table MM-1 by each quantity measurement standard method or other industry standard practice used	98.396b1						X					
MM - Suppliers of Petroleum Products	Annual quantity by product in Table MM-1	98.396b2						X					
MM - Suppliers of Petroleum Products	Percent of the volume of the petroleum product or NGL from Table MM-1 that is petroleum-based	98.396b3						X					
MM - Suppliers of Petroleum Products	Standard method or other industry standard practice used to measure each quantity of petroleum product or NGL reported in 98.396b1	98.396b4					X						
MM - Suppliers of Petroleum Products	Number of samples collected according to §98.394(c)	98.396b5i					X						
MM - Suppliers of Petroleum Products	Sampling standard method used	98.396b5ii					X						
MM - Suppliers of Petroleum Products	Carbon share test results	98.396b5iii						X					
MM - Suppliers of Petroleum Products	Standard method used to test carbon share	98.396b5iv					X						

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MM - Suppliers of Petroleum Products	Calculated CO_2 emissions factor	98.396b5v			C								
MM - Suppliers of Petroleum Products	Density test results	98.396b6i						X					
MM - Suppliers of Petroleum Products	Standard method used to test density	98.396b6ii					X						
MM - Suppliers of Petroleum Products	CO_2 emissions that would result from the complete combustion or oxidation of the product	98.396b7		X									
MM - Suppliers of Petroleum Products	Sum of CO_2 emissions that would result from the complete combustion oxidation of all imported products	98.396b8		X									
MM - Suppliers of Petroleum Products	Annual quantity by product in Table MM-1 by each quantity measurement standard method or other industry standard practice used	98.396c1						C					
MM - Suppliers of Petroleum Products	Annual quantity by product in Table MM-1	98.396c2						C					
MM - Suppliers of Petroleum Products	Percent of the volume of the petroleum product or NGL from Table MM-1 that is petroleum-based	98.396c3						C					
MM - Suppliers of Petroleum Products	Standard method or other industry standard practice used to measure each quantity of petroleum product or NGL reported in 98.396c1	98.396c4					X						
MM - Suppliers of Petroleum Products	Number of samples collected according to §98.394(c)	98.396c5i					X						
MM - Suppliers of Petroleum Products	Sampling standard method used	98.396bc5ii					X						
MM - Suppliers of Petroleum Products	Carbon share test results	98.396c5iii						C					
MM - Suppliers of Petroleum Products	Standard method used to test carbon share	98.396c5iv					X						
MM - Suppliers of Petroleum Products	Calculated CO_2 emissions factor	98.396c5v			C								

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MM - Suppliers of Petroleum Products	Density test results	98.396c6i						C					
MM - Suppliers of Petroleum Products	Standard method used to test density	98.396c6ii					X						
MM - Suppliers of Petroleum Products	CO_2 emissions that would result from the complete combustion or oxidation of the exported product	98.396c7		C									
MM - Suppliers of Petroleum Products	Sum of CO_2 emissions that would result from the complete combustion oxidation of all exported products	98.396c8		X									
NN - Suppliers of Natural Gas and NGLs	Annual quantity of ethane product supplied to downstream facilities	98.406a1						C					
NN - Suppliers of Natural Gas and NGLs	Annual quantity of propane product supplied to downstream facilities	98.406a1						C					
NN - Suppliers of Natural Gas and NGLs	Annual quantity of normal butane product supplied to downstream facilities	98.406a1						C					
NN - Suppliers of Natural Gas and NGLs	Annual quantity of isobutane product supplied to downstream facilities	98.406a1						C					
NN - Suppliers of Natural Gas and NGLs	Annual quantity of pentanes plus product supplied to downstream facilities	98.406a1						C					
NN - Suppliers of Natural Gas and NGLs	Annual quantity of ethane product received from other NGL fractionators	98.406a2							C				
NN - Suppliers of Natural Gas and NGLs	Annual quantity of propane product received from other NGL fractionators	98.406a2							C				
NN - Suppliers of Natural Gas and NGLs	Annual quantity of normal butane product received from other NGL fractionators	98.406a2							C				
NN - Suppliers of Natural Gas and NGLs	Annual quantity of isobutane product received from other NGL fractionators	98.406a2							C				

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NN - Suppliers of Natural Gas and NGLs	Annual quantity of pentanes plus product received from other NGL fractionators	98.406a2							C				
NN - Suppliers of Natural Gas and NGLs	Annual volumes of natural gas received for processing	98.406a3							C				
NN - Suppliers of Natural Gas and NGLs	Annual quantity of y-grade, bulk NGLs received from others for fractionation	98.406a4							C				
NN - Suppliers of Natural Gas and NGLs	Annual quantity of propane that the NGL fractionator odorizes at the facility and delivers to others	98.406a5						C					
NN - Suppliers of Natural Gas and NGLs	Annual CO_2 emissions that would result from the complete combustion or oxidation of each NGL product supplied to downstream facilities	98.406a6		C									
NN - Suppliers of Natural Gas and NGLs	Annual CO_2 emissions that would result from the complete combustion or oxidation of each NGL product received from other NGL fractionators	98.406a7		C									
NN - Suppliers of Natural Gas and NGLs	Specific industry standard used to measure each quantity product supplied to downstream facilities	98.406a8					X						
NN - Suppliers of Natural Gas and NGLs	Specific industry standard(s) used to develop reporter-specific higher heating value(s)	98.406a9i					X						
NN - Suppliers of Natural Gas and NGLs	Specific industry standard(s) used to develop reporter-specific higher emission factors(s)	98.406a9i					X						
NN - Suppliers of Natural Gas and NGLs	Developed HHV(s).	98.406a9ii						C					
NN - Suppliers of Natural Gas and NGLs	Developed EF(s).	98.406a9iii			C								

Table B-1: List of Data Elements in Proposed and Final Supplier Subparts

Key:

C = CBI

X= Not CBI

Footnotes:

[1] Data element is assigned to both the "Greenhouse Gases Reported" and "Production/Throughput" bins because the product is also the greenhouse gas reported.

			Category										
Subpart	Data Element	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
NN - Suppliers of Natural Gas and NGLs	Annual volume of natural gas received by the LDC at its city gate stations for redelivery on the LDC's distribution system, including for use by the LDC	98.406b1							C				
NN - Suppliers of Natural Gas and NGLs	Annual volume of natural gas placed into storage	98.406b2						X					
NN - Suppliers of Natural Gas and NGLs	Annual volume of vaporized liquefied natural gas (LNG) produced at on-system vaporization facilities for delivery on the distribution system	98.406b3							C				
NN - Suppliers of Natural Gas and NGLs	Annual volume of natural gas withdrawn from on-system storage (that is not delivered to the city gate) for delivery on the distribution system	98.406b4						X					
NN - Suppliers of Natural Gas and NGLs	Annual volume of natural gas delivered directly to LDC systems from producers or natural gas processing plants from local production	98.406b5							C				
NN - Suppliers of Natural Gas and NGLs	Annual volume of natural gas delivered to downstream gas transmission pipelines and other local distribution companies	98.406b6						X					
NN - Suppliers of Natural Gas and NGLs	Annual volume of natural gas delivered by LDC to each meter registering supply equal to or greater than 460,000 Mcsf during the calendar year	98.406b7										C	
NN - Suppliers of Natural Gas and NGLs	Total annual CO_2 mass emissions associated with annual volume of natural gas received by the LDC at its city gate (98.406b1)	98.406b8		X									
NN - Suppliers of Natural Gas and NGLs	Total annual CO_2 mass emissions associated with annual volume of natural gas placed into storage (98.406b2)	98.406b8		X									

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NN - Suppliers of Natural Gas and NGLs	Total annual CO_2 mass emissions associated with annual volume of vaporized liquefied natural gas (LNG) produced at on-system vaporization facilities for delivery on the distribution system (98.406b3)	98.406b8		X									
NN - Suppliers of Natural Gas and NGLs	Total annual CO_2 mass emissions associated with annual volume of natural gas withdrawn from on-system storage (that is not delivered to the city gate) for delivery on the distribution system (98.406b4)	98.406b8		X									
NN - Suppliers of Natural Gas and NGLs	Total annual CO_2 mass emissions associated with annual volume of natural gas delivered directly to LDC systems from producers or natural gas processing plants from local production (98.406b5)	98.406b8		X									
NN - Suppliers of Natural Gas and NGLs	Total annual CO_2 mass emissions (associated with annual volume in Mscf of natural gas delivered to downstream gas transmission pipelines and other local distribution companies (98.406b6)	98.406b8		X									
NN - Suppliers of Natural Gas and NGLs	Total annual CO_2 mass emissions associated with annual volume in Mscf of natural gas delivered by LDC to each meter registering supply equal to or greater than 460,000 Mcsf during the calendar year	98.406b8		X									

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NN - Suppliers of Natural Gas and NGLs	Annual CO_2 emissions that would result from the complete combustion or oxidation of the annual supply of natural gas to end-users registering less than 460,000 Mcsf	98.406b9		X									
NN - Suppliers of Natural Gas and NGLs	Specific industry standard used to develop the volume of natural gas received by the LDC at its city gate stations for redelivery on the LDC's distribution system, including for use by the LDC	98.406b10					X						
NN - Suppliers of Natural Gas and NGLs	Specific industry standard(s) used to develop reporter-specific higher heating value(s)	98.406b11i					X						
NN - Suppliers of Natural Gas and NGLs	Specific industry standard(s) used to develop reporter-specific higher emission factors(s)	98.406b11i					X						
NN - Suppliers of Natural Gas and NGLs	Developed HHV(s).	98.406b11ii						X					
NN - Suppliers of Natural Gas and NGLs	Developed EF(s).	98.406b11iii			C								
NN - Suppliers of Natural Gas and NGLs	Customer name	98.406b12										C	
NN - Suppliers of Natural Gas and NGLs	Customer address	98.406b12										C	
NN - Suppliers of Natural Gas and NGLs	Meter number of each meter reading used to report annual volume in Mscf of natural gas delivered by LDC to each meter registering supply equal to or greater than 460,000 Mcsf during the calendar year	98.406b12										C	
NN - Suppliers of Natural Gas and NGLs	EIA identification number of each LDC customer	98.406b12i										C	
NN - Suppliers of Natural Gas and NGLs	Annual volume of natural gas delivered by the LDC to Residential consumers	98.406b13i						X					

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Subpart	Data Element	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
NN - Suppliers of Natural Gas and NGLs	Annual volume of natural gas delivered by the LDC to Commercial consumers	98.406b13ii						X					
NN - Suppliers of Natural Gas and NGLs	Annual volume of natural gas delivered by the LDC to Industrial consumers	98.406b13iii						X					
NN - Suppliers of Natural Gas and NGLs	Annual volume of natural gas delivered by the LDC to Electricity generating facilities	98.406b13iv						X					
NN - Suppliers of Natural Gas and NGLs	Number of days in the reporting year for which substitute data procedures were used to measure quantity	98.406ci									X		
NN - Suppliers of Natural Gas and NGLs	Number of days in the reporting year for which substitute data procedures were used to develop HHV(s)	98.406cii									X		
NN - Suppliers of Natural Gas and NGLs	Number of days in the reporting year for which substitute data procedures were used to develop EF(s)	98.406ciii									X		
OO - Suppliers of Industrial GHGs	Mass of each fluorinated GHG produced[1]	98.416a1		C				C					
OO - Suppliers of Industrial GHGs	Mass of N_2O produced[1]	98.416a1		C				C					
OO - Suppliers of Industrial GHGs	Mass of each fluorinated GHG transformed at that facility[1]	98.416a2		C				C					
OO - Suppliers of Industrial GHGs	Mass of N_2O transformed at that facility[1]	98.416a2		C				C					
OO - Suppliers of Industrial GHGs	Mass of each fluorinated GHG destroyed at the facility[1]	98.416a3		C				C					
OO - Suppliers of Industrial GHGs	Mass of each fluorinated GHG destroyed at the facility[1]	98.416a4		C				C					
OO - Suppliers of Industrial GHGs	Total mass of each fluorinated GHG or nitrous oxide sent to another facility for transformation	98.416a5						C					

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Subpart	Data Element	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
OO - Suppliers of Industrial GHGs	Total mass of each fluorinated GHG sent to another facility for destruction	98.416a6						C					
OO - Suppliers of Industrial GHGs	Total mass of each fluorinated GHG that is sent to another facility for destruction	98.416a7						C					
OO - Suppliers of Industrial GHGs	Total mass of each reactant fed into the F-GHG or nitrous oxide production process	98.416a8							C				
OO - Suppliers of Industrial GHGs	Total mass of the reactants permanently removed from the FGHG or nitrous oxide production process	98.416a9						C					
OO - Suppliers of Industrial GHGs	Total mass of the by-products permanently removed from the FGHG or nitrous oxide production process	98.416a9						C					
OO - Suppliers of Industrial GHGs	Total mass of the other wastes permanently removed from the FGHG or nitrous oxide production process	98.416a9						C					
OO - Suppliers of Industrial GHGs	Mass of any fluorinated GHG or nitrous oxide fed into the transformation process	98.416a10							C				
OO - Suppliers of Industrial GHGs	Mass of each fluorinated GHG fed into the destruction device	98.416a11						C					
OO - Suppliers of Industrial GHGs	Mass of each fluorinated GHG or nitrous oxide that is measured coming out of the production process	98.416a12						C					
OO - Suppliers of Industrial GHGs	Mass of each used fluorinated GHGs or nitrous oxide added back into the production process	98.416a13							C				
OO - Suppliers of Industrial GHGs	Names of facilities to which any nitrous oxide or fluorinated GHGs were sent for transformation	98.416a14										C	

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OO - Suppliers of Industrial GHGs	Addresses of facilities to which any nitrous oxide or fluorinated GHGs were sent for transformation	98.416a14										C	
OO - Suppliers of Industrial GHGs	Quantities (in metric tons) of nitrous oxide or each fluorinated GHGs that were sent for transformation	98.416a14						C					
OO - Suppliers of Industrial GHGs	Names of facilities to which any fluorinated GHGs were sent for destruction	98.416a15										C	
OO - Suppliers of Industrial GHGs	Addresses of facilities to which any fluorinated GHGs were sent for destruction	98.416a15										C	
OO - Suppliers of Industrial GHGs	Quantities (in metric tons) of nitrous oxide or each fluorinated GHGs that were sent for destruction	98.416a15						C					
OO - Suppliers of Industrial GHGs	Reason the data were missing	98.416a16								C			
OO - Suppliers of Industrial GHGs	Length of time the data were missing	98.416a16								C			
OO - Suppliers of Industrial GHGs	Method used to estimate the missing data	98.416a16								C			
OO - Suppliers of Industrial GHGs	Estimates of the missing data	98.416a16								C			
OO - Suppliers of Industrial GHGs	One time report: Destruction efficiency (DE) of each destruction unit	98.416b1				X							
OO - Suppliers of Industrial GHGs	One time report: Methods used to determine the destruction efficiency	98.416b2					X						
OO - Suppliers of Industrial GHGs	One time report: Methods used to record the mass of fluorinated GHG destroyed	98.416b3					X						
OO - Suppliers of Industrial GHGs	One time report: Chemical identity of the fluorinated GHG(s) used in the performance test conducted to determine DE	98.416b4				X							
OO - Suppliers of Industrial GHGs	One time report: Name of all applicable federal or state regulations that may apply to the destruction process	98.416b5				X							

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OO - Suppliers of Industrial GHGs	Revised report including 98.416b1-b5	98.416b6				X							
OO - Suppliers of Industrial GHGs	Total mass in metric tons of nitrous oxide and each fluorinated GHG imported in bulk[1]	98.416c1		C				C					
OO - Suppliers of Industrial GHGs	Total mass in metric tons of nitrous oxide and each fluorinated GHG imported in bulk and sold or transferred to persons other than the importer for use in processes resulting in the transformation or destruction of the chemical	98.416c2						C					
OO - Suppliers of Industrial GHGs	Date on which the fluorinated GHGs or nitrous oxide were imported	98.416c3				X							
OO - Suppliers of Industrial GHGs	Port of entry through which the fluorinated GHGs or nitrous oxide passed	98.416c4				X							
OO - Suppliers of Industrial GHGs	Country from which the imported fluorinated GHGs or nitrous oxide were imported	98.416c5										C	
OO - Suppliers of Industrial GHGs	Commodity code of the fluorinated GHGs or nitrous oxide shipped	98.416c6						C					
OO - Suppliers of Industrial GHGs	Importer number for the shipment	98.416c7	X										
OO - Suppliers of Industrial GHGs	Total mass of each fluorinated GHG destroyed by the importer[1]	98.416c8		C				C					
OO - Suppliers of Industrial GHGs	Names of facilities to which any nitrous oxide or fluorinated GHGs were sold or transferred for transformation	98.416c9										C	
OO - Suppliers of Industrial GHGs	Addresses of facilities to which any nitrous oxide or fluorinated GHGs were sold or transferred for transformation	98.416c9										C	
OO - Suppliers of Industrial GHGs	Quantities of nitrous oxide or each fluorinated GHGs that were sold or transferred for transformation	98.416c9						C					

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OO - Suppliers of Industrial GHGs	Names of facilities to which any fluorinated GHGs were sold or transferred to each facility for destruction	98.416c10										C	
OO - Suppliers of Industrial GHGs	Addresses of facilities to which any fluorinated GHGs were sold or transferred to each facility for destruction	98.416c10										C	
OO - Suppliers of Industrial GHGs	Quantities (in metric tons) of nitrous oxide or each fluorinated GHGs that were sold or transferred to each facility for destruction	98.416c10						C					
OO - Suppliers of Industrial GHGs	Total mass of nitrous oxide and each fluorinated GHG exported in bulk[1]	98.416d1		C				C					
OO - Suppliers of Industrial GHGs	Name of the exporter	98.416d2	X										
OO - Suppliers of Industrial GHGs	Address of the exporter	98.416d2	X										
OO - Suppliers of Industrial GHGs	Name of the receiver	98.416d2										C	
OO - Suppliers of Industrial GHGs	Address of the receiver	98.416d2										C	
OO - Suppliers of Industrial GHGs	Exporter's Employee Identification Number	98.416d3	X										
OO - Suppliers of Industrial GHGs	Commodity code of the fluorinated GHGs and nitrous oxide shipped	98.416d4						C					
OO - Suppliers of Industrial GHGs	Date on which the fluorinated GHGs and nitrous oxide were exported from the United States or its territories	98.416d5				X							
OO - Suppliers of Industrial GHGs	Port from which the fluorinated GHGs and nitrous oxide were exported from the United States or its territories	98.416d5				X							
OO - Suppliers of Industrial GHGs	Country to which the fluorinated GHGs or nitrous oxide were exported	98.416d6										C	
OO - Suppliers of Industrial GHGs	One time report: Instrumentation by which the producer in practice measures the mass of fluorinated GHGs produced	98.416e1					X						

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OO - Suppliers of Industrial GHGs	One time report: Accuracy of the instrumentation by which the producer in practice measures the mass of fluorinated GHGs produced	98.416e1					X						
OO - Suppliers of Industrial GHGs	One time report: Precision of the instrumentation by which the producer in practice measures the mass of fluorinated GHGs produced	98.416e1					X						
OO - Suppliers of Industrial GHGs	One time report: Instrumentation by which the producer in practice estimates the mass of fluorinated GHGs fed into the transformation process	98.416e2					X						
OO - Suppliers of Industrial GHGs	One time report: Accuracy of the instrumentation by which the producer in practice estimates the mass of fluorinated GHGs fed into the transformation process	98.416e2					X						
OO - Suppliers of Industrial GHGs	One time report: Precision of the instrumentation by which the producer in practice estimates the mass of fluorinated GHGs fed into the transformation process	98.416e2					X						
OO - Suppliers of Industrial GHGs	One time report: Instrumentation by which the producer in practice estimates the fraction of fluorinated GHGs fed into the transformation process that is actually transformed	98.416e3					X						
OO - Suppliers of Industrial GHGs	One time report: Accuracy of the instrumentation by which the producer in practice estimates the fraction of fluorinated GHGs fed into the transformation process that is actually transformed	98.416e3					X						

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OO - Suppliers of Industrial GHGs	One time report: Precision of the instrumentation by which the producer in practice estimates the fraction of fluorinated GHGs fed into the transformation process that is actually transformed	98.416e3					X						
OO - Suppliers of Industrial GHGs	One time report: Method(s) by which the producer in practice estimates the concentration of the fluorinated GHGs in the destroyed material	98.416e4					X						
OO - Suppliers of Industrial GHGs	One time report: Accuracy of the estimate by the producer of the concentration of the fluorinated GHGs in the destroyed material	98.416e4					X						
OO - Suppliers of Industrial GHGs	One time report: Precision of the estimate by the producer of the concentration of the fluorinated GHGs in the destroyed material	98.416e4					X						
OO - Suppliers of Industrial GHGs	One time report: Estimated percent efficiency of each production process for the fluorinated GHG produced	98.416e5				C							
PP - Suppliers of Carbon Dioxide	Annual mass of CO_2[1]	98.426a1		C				C					
PP - Suppliers of Carbon Dioxide	Quarterly mass flow of CO_2	98.426a2						C					
PP - Suppliers of Carbon Dioxide	Quarterly concentration of the CO_2 stream	98.426a3						C					
PP - Suppliers of Carbon Dioxide	Standard used to measure CO_2 concentration	98.426a4					X						
PP - Suppliers of Carbon Dioxide	Annual mass of CO_2[1]	98.426b1		C				C					
PP - Suppliers of Carbon Dioxide	Quarterly volumetric flow of CO_2	98.426b2						C					
PP - Suppliers of Carbon Dioxide	Quarterly concentration of the CO_2 stream	98.426b3						C					
PP - Suppliers of Carbon Dioxide	Quarterly density of the CO_2 stream	98.426b4						C					
PP - Suppliers of Carbon Dioxide	Method used to measure density	98.426b5					X						

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PP - Suppliers of Carbon Dioxide	Standard used to measure CO_2 concentration	98.426b6					X						
PP - Suppliers of Carbon Dioxide	Annual mass of CO_2	98.426c		X									
PP - Suppliers of Carbon Dioxide	Annual mass of CO_2 - imported	98.426d		X				X					
PP - Suppliers of Carbon Dioxide	Annual mass of CO_2 - exported	98.426d		X				X					
PP - Suppliers of Carbon Dioxide	Type of equipment used to measure the total flow of the CO_2 stream	98.426e1					X						
PP - Suppliers of Carbon Dioxide	Type of equipment used to measure the total mass in CO_2 containers	98.426e1					X						
PP - Suppliers of Carbon Dioxide	Standard used to operate the equipment used to measure the total flow of the CO2 stream	98.426e2					X						
PP - Suppliers of Carbon Dioxide	Standard used to calibrate the equipment used to measure the total flow of the CO2 stream	98.426e2					X						
PP - Suppliers of Carbon Dioxide	Standard used to operate the equipment used to measure the total mass in CO2 containers	98.426e2					X						
PP - Suppliers of Carbon Dioxide	Standard used to calibrate the equipment used to measure the total mass in CO2 containers	98.426e2					X						
PP - Suppliers of Carbon Dioxide	Number of days in the reporting year for which substitute data procedures were used to measure quantity	98.426e3i									X		
PP - Suppliers of Carbon Dioxide	Number of days in the reporting year for which substitute data procedures were used to measure concentration	98.426e3ii									X		
PP - Suppliers of Carbon Dioxide	Number of days in the reporting year for which substitute data procedures were used to measure density	98.426e3iii									X		
PP - Suppliers of Carbon Dioxide	Aggregated annual quantity of CO_2 that is transferred to food and beverage end use applications	98.426fi						X					

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PP - Suppliers of Carbon Dioxide	Aggregated annual quantity of CO_2 that is transferred to industrial and municipal water/wastewater treatment end use applications	98.426fii						X					
PP - Suppliers of Carbon Dioxide	Aggregated annual quantity of CO_2 that is transferred to metal fabrication, including welding and cutting	98.426fiii						X					
PP - Suppliers of Carbon Dioxide	Aggregated annual quantity of CO_2 that is transferred to greenhouse uses for plant growth	98.426fiv						X					
PP - Suppliers of Carbon Dioxide	Aggregated annual quantity of CO_2 that is transferred to Fumigants (e.g., grain storage) and herbicides end use applications	98.426fv						X					
PP - Suppliers of Carbon Dioxide	Aggregated annual quantity of CO_2 that is transferred to pulp and paper end use applications	98.426fvi						X					
PP - Suppliers of Carbon Dioxide	Aggregated annual quantity of CO_2 that is transferred to Cleaning and solvent use end use applications	98.426fvii						X					
PP - Suppliers of Carbon Dioxide	Aggregated annual quantity of CO_2 that is transferred to Fire fighting end use applications	98.426fviii						X					
PP - Suppliers of Carbon Dioxide	Aggregated annual quantity of CO_2 that is transferred to Transportation and storage of explosives end use applications	98.426fix						X					
PP - Suppliers of Carbon Dioxide	Aggregated annual quantity of CO_2 that is transferred to Enhanced oil and natural gas recovery end use applications	98.426fx						X					
PP - Suppliers of Carbon Dioxide	Aggregated annual quantity of CO_2 that is transferred to Long-term storage (sequestration) end use applications	98.426fxi						X					

Table B-1: List of Data Elements in Proposed and Final Supplier Subparts

Key:

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Footnotes:

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			Category										
Subpart	Data Element	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
PP - Suppliers of Carbon Dioxide	Aggregated annual quantity of CO_2 that is transferred to research and development end use applications	98.426fxii						X					
PP - Suppliers of Carbon Dioxide	Aggregated annual quantity of CO_2 that is transferred to other end use applications	98.426fxiii						X					
PP - Suppliers of Carbon Dioxide	Percent of captured CO_2 stream that is biomass based	98.426g				X							
PP - Suppliers of Carbon Dioxide	Percent of captured CO_2 stream that is biomass based	98.426g				X							
QQ - Importers and Exporters of F-GHG Gases in Pre-Charged Equipment or Closed-cell Foams	Total mass of each F-GHG imported in pre-charged equipment or closed-cell foams.	98.436a1		C				C					
QQ - Importers and Exporters of F-GHG Gases in Pre-Charged Equipment or Closed-cell Foams	Identity of F-GHG used as a refigerant or electrical insulator	98.436a2		C				C					
QQ - Importers and Exporters of F-GHG Gases in Pre-Charged Equipment or Closed-cell Foams	Charge size	98.436a2						C					
QQ - Importers and Exporters of F-GHG Gases in Pre-Charged Equipment or Closed-cell Foams	Number imported	98.436a2						C					
QQ - Importers and Exporters of F-GHG Gases in Pre-Charged Equipment or Closed-cell Foams	Identify of the F-GHG contained in the foam	98.436a3		C									
QQ - Importers and Exporters of F-GHG Gases in Pre-Charged Equipment or Closed-cell Foams	Quantity of the F-GHG contained in the foam in each appliance	98.436a3						C					
QQ - Importers and Exporters of F-GHG Gases in Pre-Charged Equipment or Closed-cell Foams	Number of appliances imported	98.436a3						C					
QQ - Importers and Exporters of F-GHG Gases in Pre-Charged Equipment or Closed-cell Foams	Identify of the F-GHG in the foam	98.436a4		C									
QQ - Importers and Exporters of F-GHG Gases in Pre-Charged Equipment or Closed-cell Foams	Density of the F-GHG in the foam	98.436a4						C					

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Subpart	Data Element	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
QQ - Importers and Exporters of F-GHG Gases in Pre-Charged Equipment or Closed-cell Foams	Quantity of foam imported	98.436a4						C					
QQ - Importers and Exporters of F-GHG Gases in Pre-Charged Equipment or Closed-cell Foams	Dates on which pre-charged equipment were imported	98.436a5				X							
QQ - Importers and Exporters of F-GHG Gases in Pre-Charged Equipment or Closed-cell Foams	Dates on which closed-cell foams were imported	98.436a5				X							
QQ - Importers and Exporters of F-GHG Gases in Pre-Charged Equipment or Closed-cell Foams	Ports of entry through which pre-charged equipment passed	98.436a6				X							
QQ - Importers and Exporters of F-GHG Gases in Pre-Charged Equipment or Closed-cell Foams	Ports of entry through which closed-cell foams passed	98.436a6				X							
QQ - Importers and Exporters of F-GHG Gases in Pre-Charged Equipment or Closed-cell Foams	Countries from which the pre-charged equipment were imported	98.436a7										C	
QQ - Importers and Exporters of F-GHG Gases in Pre-Charged Equipment or Closed-cell Foams	Countries from which the closed-cell foams were imported	98.436a7										C	
QQ - Importers and Exporters of F-GHG Gases in Pre-Charged Equipment or Closed-cell Foams	Total mass of each F-GHG exported in pre-charged equipment or closed-cell foams.	98.436b1		C									
QQ - Importers and Exporters of F-GHG Gases in Pre-Charged Equipment or Closed-cell Foams	Identify of the F-GHG used as refridgerant or electrical insulator	98.436b2		C									
QQ - Importers and Exporters of F-GHG Gases in Pre-Charged Equipment or Closed-cell Foams	Charge size (including holding charge, if applicable)	98.436b2						C					
QQ - Importers and Exporters of F-GHG Gases in Pre-Charged Equipment or Closed-cell Foams	Number of each type of pre-charged units exported	98.436b2						C					
QQ - Importers and Exporters of F-GHG Gases in Pre-Charged Equipment or Closed-cell Foams	Identity of F-GHG contained in the closed-cell foam exported	98.436b3		C									

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Subpart	Data Element	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
QQ - Importers and Exporters of F-GHG Gases in Pre-Charged Equipment or Closed-cell Foams	Quantity of F-GHG contained in the foam in each appliance	98.436b3						C					
QQ - Importers and Exporters of F-GHG Gases in Pre-Charged Equipment or Closed-cell Foams	Number of appliances exported	98.436b3						C					
QQ - Importers and Exporters of F-GHG Gases in Pre-Charged Equipment or Closed-cell Foams	Identity of each F-GHG contained in the foam	98.436b4		C									
QQ - Importers and Exporters of F-GHG Gases in Pre-Charged Equipment or Closed-cell Foams	Density of each F-GHG contained in the foam	98.436b4						C					
QQ - Importers and Exporters of F-GHG Gases in Pre-Charged Equipment or Closed-cell Foams	Quantity of foam exported	98.436b4						C					
QQ - Importers and Exporters of F-GHG Gases in Pre-Charged Equipment or Closed-cell Foams	Dates on which the pre-charged equipment were exported	98.436b5				X							
QQ - Importers and Exporters of F-GHG Gases in Pre-Charged Equipment or Closed-cell Foams	Dates on which the closed-cell foams were exported	98.436b5				X							
QQ - Importers and Exporters of F-GHG Gases in Pre-Charged Equipment or Closed-cell Foams	Ports of exit through which the pre-charged equipment passed	98.436b6				X							
QQ - Importers and Exporters of F-GHG Gases in Pre-Charged Equipment or Closed-cell Foams	Ports of exit through which the closed-cell foams passed	98.436b6				X							
QQ - Importers and Exporters of F-GHG Gases in Pre-Charged Equipment or Closed-cell Foams	Countries to which the pre-charged equipment were exported	98.436b7				X							
QQ - Importers and Exporters of F-GHG Gases in Pre-Charged Equipment or Closed-cell Foams	Countries to which the closed-cell foams were exported	98.436b7				X							
RR - Injection and Geological Sequestration of Carbon Dioxide	Quantity of CO2 transferred onsite each quarter.	98.446a1		C				C					
RR - Injection and Geological Sequestration of Carbon Dioxide	CO2 concentration in flow transferred onsite each quarter.	98.446a2						C					

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Subpart	Data Element	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
RR - Injection and Geological Sequestration of Carbon Dioxide	Volumetric flow rate at standard condidtions in each quarter.	98.446a3						C					
RR - Injection and Geological Sequestration of Carbon Dioxide	Mass flow rate each quarter.	98.446a4						C					
RR - Injection and Geological Sequestration of Carbon Dioxide	The standard used to calculate each value in 98.446 (a)(1) through (a)(4).	98.446a5					X						
RR - Injection and Geological Sequestration of Carbon Dioxide	Number of times in the reporting year for which substitute data procedures were used to calculate values reported in 98.446(a)(1) through (a)(4).	98.446a6									X		
RR - Injection and Geological Sequestration of Carbon Dioxide	Quantity of CO2 injected each quarter.	98.446b1		X				X					
RR - Injection and Geological Sequestration of Carbon Dioxide	CO2 concentration in flow (volume or wt.% CO2) each quarter.	98.446b2						X					
RR - Injection and Geological Sequestration of Carbon Dioxide	Volumetric flow rate at standard condidtions in each quarter.	98.446b3						X					
RR - Injection and Geological Sequestration of Carbon Dioxide	Mass flow rate each quarter.	98.446b4						X					
RR - Injection and Geological Sequestration of Carbon Dioxide	Standard used to calculate each value in paragraphs 98.446(b)(1) through (b)(4).	98.446b5					X						
RR - Injection and Geological Sequestration of Carbon Dioxide	Number of times in the reporting year for which substitute data procedures were used to calculate values reported in 98.446(b)(1) through (b)(4).	98.446b6									X		

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Subpart	Data Element	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
RR - Injection and Geological Sequestration of Carbon Dioxide	Source of the CO2 supplied (if known) (i.e., select from the following categories: CO2 production wells, electric generating unit, ethanol plant, pulp and paper mill, natural gas processing, other anthropogenic source, unknown).	98.446c				X							
RR - Injection and Geological Sequestration of Carbon Dioxide	Total CO2 received onsite during the reporting year calculated in Equation RR-3.	98.446d		X				X					
RR - Injection and Geological Sequestration of Carbon Dioxide	Total CO2 injected during the reporting year as calculatated in Equation RR-6.	98.446e		X				X					
RR - Injection and Geological Sequestration of Carbon Dioxide	CO2 quantity produced in each quarter.	98.446f4i		C				C					
RR - Injection and Geological Sequestration of Carbon Dioxide	CO2 concentration in flow in each quarter.	98.446f4ii						C					
RR - Injection and Geological Sequestration of Carbon Dioxide	Volumetric flow rate at standard condidtions in each quarter.	98.446f5						C					
RR - Injection and Geological Sequestration of Carbon Dioxide	Mass flow rate each quarter.	98.446f6						C					
RR - Injection and Geological Sequestration of Carbon Dioxide	Standard used to calculate the each value in 9 98.446(f)(4) through (f)(6).	98.446f7					X						
RR - Injection and Geological Sequestration of Carbon Dioxide	Number of times in the reporting year for which substitute data procedures were used to calculate values reported in 98.446(f)(4) through (f)(6).	98.446f8									X		
RR - Injection and Geological Sequestration of Carbon Dioxide	Value of X (%) used in Equation RR-9 and as determined in your MRV plan.	98.446f9						X					
RR - Injection and Geological Sequestration of Carbon Dioxide	Annual CO2 produced in the reporting year, as calculated in Equation RR-9.	98.446f10		X				X					

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RR - Injection and Geological Sequestration of Carbon Dioxide	Annual CO2 sequestered in the subsurface geologic formation in the reporting year, as calculated by Equation RR-11 or RR-12.	98.446f13		X				X					
RR - Injection and Geological Sequestration of Carbon Dioxide	Cumulative mass of CO2 reported as sequestered in the subsurface geologic formation in all years since you began reporting.	98.446f14		X				X					
RR - Injection and Geological Sequestration of Carbon Dioxide	Well ID number used for the Underground Injection Control Permit.	98.446f17i	X										
RR - Injection and Geological Sequestration of Carbon Dioxide	Underground Injection Control permit class.	98.446f17ii				X							

Table B-2: Suppliers: Technical Corrections, Clarifying and Other Amendments to Certain Provisions of the Greenhouse Gas Reporting Rule (75 FR 33950, June 15, 2010)

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Subpart	Data Element	Reporting Section	Identification Information	GHGs Reported	Emission Factors	Unit/ Process Operating Characteristics	Calculation, Test, and Calibration Methods	Production/ Throughput Quantities and Composition	Materials Received (Amount and Composition)	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	Vendor and Process Specifc Data Submitted in a BAMM Extension Request
LL - Suppliers of Coal-based Liquid Products	Annual quantity by product in Table MM-1 (leaving the coal-to-liquid facility) by each quantity measurement standard method or other industry standard practice used. For natural gas liquids, quantity shall reflect the individual components of the product. **Those products that enter the facility, but are not reported in (a)(1), shall not be reported under this paragraph.**	98.386a5						C					
LL - Suppliers of Coal-based Liquid Products	Annual quantity by product in Table MM-1 (leaving the coal-to-liquid facility). For natural gas liquids, quantity shall reflect the individual components of the product. **Those products that enter the facility, but are not reported in (a)(2), shall not be reported under this paragraph.**	98.386a6						C					
MM - Suppliers of Petroleum Products	Each refiner must report the percent of the volume reported in paragraph (a)(2) (the petroleum product or NGL from Table MM-1) that is petroleum-based **(excluding any denaturant that may be present in any ethanol product).**	98.396a3						C					
MM - Suppliers of Petroleum Products	Each refiner must report the annual quantity in metric tons or barrels for products in Table MM-1 (ex refinery gate) by each quantity measurement standard method or other industry standard practice used. For natural gas liquids, quantity shall reflect the individual components of the product. **Petroleum products and natural gas liquids that enter the refinery, but are not reported in (a)(1), shall not be reported under this paragraph.**	98.396a5						C					

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Subpart	Data Element	Reporting Section	Identification Information	GHGs Reported	Emission Factors	Unit/ Process Operating Characteristics	Calculation, Test, and Calibration Methods	Production/ Throughput Quantities and Composition	Materials Received (Amount and Composition)	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	Vendor and Process Specifc Data Submitted in a BAMM Extension Request
MM - Suppliers of Petroleum Products	Each refiner must report the annual quantity in metric tons or barrels for products listed in Table MM-1 (ex refinery gate). For natural gas liquids, quantity shall reflect the individual components of the product. **Petroleum products and natural gas liquids that enter the refinery, but are not reported in (a)(2), shall not be reported under this paragraph.**	98.396a6						C					
MM - Suppliers of Petroleum Products	Each refiner must report the percent of the volume of the petroleum product or NGL from table MM-1 that is petroleum-based **(excluding any denaturant that may be present in any ethanol product).**	98.396a7						C					
MM - Suppliers of Petroleum Products	**Weighted average** API gravity of the batch at the point of entry at the refinery	98.396a20ii							C				
MM - Suppliers of Petroleum Products	**Weighted average s**ulfur content of the batch at the point of entry at the refinery	98.396a20iii							C				
MM - Suppliers of Petroleum Products	Each importer must report the percent of the volume of the petroleum product or NGL from table MM-1 that is petroleum-based **(excluding any denaturant that may be present in any ethanol product).**	98.396b3						X					
MM - Suppliers of Petroleum Products	Each exporter must report percent of the volume of the petroleum product or NGL from table MM-1 that is petroleum-based **(excluding any denaturant that may be present in any ethanol product).**	98.396c3						C					
MM - Suppliers of Petroleum Products	**Each refinery and each exporter must report the volume or mass of each blending component**	**98.396d1i**						**C**					
MM - Suppliers of Petroleum Products	**Each importer must report the volume or mass of each blending component**	**98.396d1i**						**X**					

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MM - Suppliers of Petroleum Products	**Each refinery, each importer, and each exporter must report the CO_2 emissions in metric tons that would result from the complete combustion or oxidation of each blended non-crude feedstock or product, using Equation MM12 or Equation MM-13 of this section.**	**98.396d1ii**		**C**									
MM - Suppliers of Petroleum Products	**Each refinery must report requirements of paragraph (a)(1) (i.e., annual quantity in metric tons or barrels by each measurement standard method or other industry standard practice) of this section by reflecting the individual components of the blended non-crude feedstock.**	**98.396d2**							**C**				
MM - Suppliers of Petroleum Products	**Each refinery must report requirements of paragraph (a)(2) of this section (i.e., annual quantity in metric tons or barrels) by reflecting the individual components of the blended non-crude feedstock.**	**98.396d2**							**C**				
MM - Suppliers of Petroleum Products	**Each refiner and each exporter must report the requirements of paragraphs (a)(5) of this section (i.e., annual quantity for products in Table MM-1 (ex refinery gate) by each quantity measurement standard method or other industry standard practice used), as applicable, by reflecting the individual components of the blended product.**	**98.396d3**						**C**					

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Subpart	Data Element	Reporting Section	Identification Information	GHGs Reported	Emission Factors	Unit/ Process Operating Characteristics	Calculation, Test, and Calibration Methods	Production/ Throughput Quantities and Composition	Materials Received (Amount and Composition)	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	Vendor and Process Specifc Data Submitted in a BAMM Extension Request
MM - Suppliers of Petroleum Products	**Each importer must report requirements of paragraphs (a)(5) of this section (i.e., annual quantity for products in Table MM-1 (ex refinery gate) by each quantity measurement standard method or other industry standard practice used), as applicable, by reflecting the individual components of the blended product.**	**98.396d3**						X					
MM - Suppliers of Petroleum Products	**Each refinery and each exporter must report requirements of paragraphs (a)(6) of this section (i.e., annual quantity for products in Table MM-1 (ex refinery gate)), as applicable, by reflecting the individual components of the blended product.**	**98.396d3**						C					
MM - Suppliers of Petroleum Products	**Each importer must report requirements of paragraphs (a)(6) of this section (i.e., annual quantity for products in Table MM-1 (ex refinery gate)), as applicable, by reflecting the individual components of the blended product.**	**98.396d3**						X					
MM - Suppliers of Petroleum Products	**Each refinery and each exporter must report requirements of paragraphs (b)(1) of this section (i.e., annual quantity by product in Table MM-1), as applicable, by reflecting the individual components of the blended product.**	**98.396d3**						C					

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MM - Suppliers of Petroleum Products	**Each importer must report equirements of paragraphs (b)(1) of this section (i.e., annual quantity by product in Table MM-1), as applicable, by reflecting the individual components of the blended product.**	**98.396d3**						X					
MM - Suppliers of Petroleum Products	**Each refinery and each exporter must report requirements of paragraphs (b)(2) of this section (i.e., annual quantity by product in Table MM-1), as applicable, by reflecting the individual components of the blended product.**	**98.396d3**						C					
MM - Suppliers of Petroleum Products	**Each importer must report requirements of paragraphs (b)(2) of this section (i.e., annual quantity by product in Table MM-1), as applicable, by reflecting the individual components of the blended product.**	**98.396d3**						X					
MM - Suppliers of Petroleum Products	**Each refinery and each exporter must report requirements of paragraphs (c)(1) of this section (i.e., annual quantity by product in Table MM-1 by each quantity measurement standard method or other industry standard practice used), as applicable, by reflecting the individual components of the blended product.**	**98.396d3**						C					

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			Category											
Subpart	Data Element	Reporting Section	Identification Information	GHGs Reported	Emission Factors	Unit/ Process Operating Characteristics	Calculation, Test, and Calibration Methods	Production/ Throughput Quantities and Composition	Materials Received (Amount and Composition)	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	Vendor and Process Specifc Data Submitted in a BAMM Extension Request
MM - Suppliers of Petroleum Products	**Each importer must report requirements of paragraphs (c)(1) of this section (i.e., annual quantity by product in Table MM-1 by each quantity measurement standard method or other industry standard practice used), as applicable, by reflecting the individual components of the blended product.**	**98.396d3**						X					
MM - Suppliers of Petroleum Products	**Each refinery and each exporter must report requirements of paragraphs (c)(2) of this section (i.e., annual quantity by product in Table MM-1), as applicable, by reflecting the individual components of the blended product.**	**98.396d3**						C					
MM - Suppliers of Petroleum Products	**Each importer must report requirements of paragraphs (c)(2) of this section (i.e., annual quantity by product in Table MM-1), as applicable, by reflecting the individual components of the blended product.**	**98.396d3**						X					
NN - Suppliers of Natural Gas and NGLs	If the **NGL** ~~LNG~~ fractionator developed reporter-specific EFs or HHVs, report the specific industry standard(s) used to develop reporter-specific higher heating value(s) **for each product type.**	98.406a9i					X						
NN - Suppliers of Natural Gas and NGLs	If the **NGL** ~~LNG~~ fractionator developed reporter-specific EFs or HHVs, report the specific industry standard(s) used to develop reporter-specific higher emission factors(s) **for each product type.**	98.406a9i					X						

Table B-2: Suppliers: Technical Corrections, Clarifying and Other Amendments to Certain Provisions of the Greenhouse Gas Reporting Rule (75 FR 33950, June 15, 2010)

Key:

C = CBI

X = Not CBI

Note: Proposed changes to reporting requirements are shown using bold (new rule text) and strikeout (deleted rule text).

Footnotes:

[1] Data element is assigned to both the "Greenhouse Gases Reported" and "Production/Throughput" bins because the product is also the greenhouse gas reported.

			Category											
Subpart	Data Element	Reporting Section	Identification Information	GHGs Reported	Emission Factors	Unit/ Process Operating Characteristics	Calculation, Test, and Calibration Methods	Production/ Throughput Quantities and Composition	Materials Received (Amount and Composition)	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	Vendor and Process Specifc Data Submitted in a BAMM Extension Request
NN - Suppliers of Natural Gas and NGLs	If the **NGL ~~LNG~~** fractionator developed reporter-specific EFs or HHVs, report the developed HHV(s) **for each product type.**	98.406a9ii						C					
NN - Suppliers of Natural Gas and NGLs	If the **NGL ~~LNG~~** fractionator developed reporter-specific EFs or HHVs, report the developed EF(s) **for each product type**.	98.406a9iii			C								