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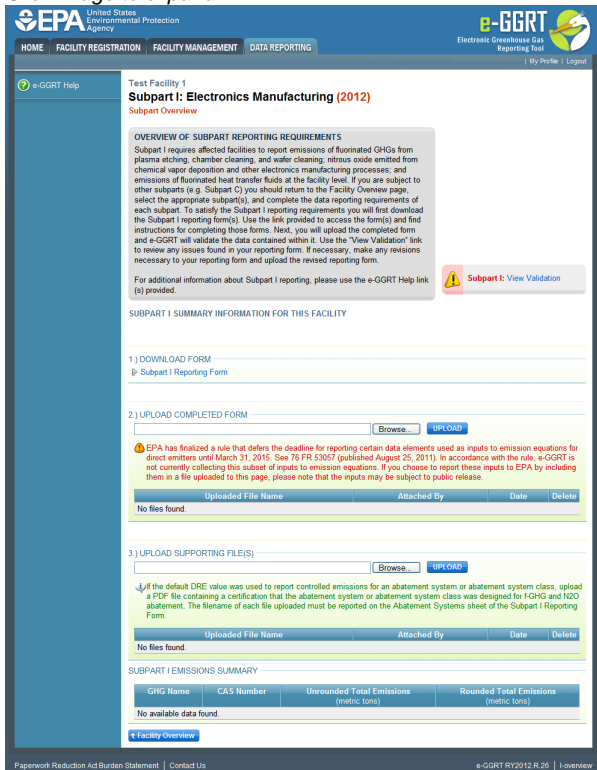
# Subpart I - Electronics Manufacturing

 A printer-friendly version (pdf) (7 pp, 665KB) of GHG reporting instructions for this subpart

This page provides an overview of Subpart I reporting through e-GGRT. More detailed information regarding Subpart I reporting can be found in the Subpart I Webinar

Once you have added Subpart I to the list of subparts you will report and have clicked on the "Open" link next to Subpart I, you will see the following screen:

Click image to expand



The screenshot shows the EPA e-GGRT interface for Subpart I: Electronics Manufacturing (2012). The page is titled "Subpart I: Electronics Manufacturing (2012)" and includes a "Subpart Overview" section. The overview text states: "Subpart I requires affected facilities to report emissions of fluorinated GHGs from plasma etching, chamber cleaning, and wafer cleaning; nitrous oxide emitted from chemical vapor deposition and other electronics manufacturing processes; and emissions of fluorinated heat transfer fluids at the facility level. If you are subject to other subparts (e.g., Subpart C) you should return to the Facility Overview page, select the appropriate subpart(s), and complete the data reporting requirements of each subpart. To satisfy the Subpart I reporting requirements you will first download the Subpart I reporting forms. Use the link provided to access the form(s) and find instructions for completing those forms. Next, you will upload the completed form and e-GGRT will validate the data contained within it. Use the 'View Validation' link to review any issues found in your reporting form. If necessary, make any revisions necessary to your reporting form and upload the revised reporting form." Below this text is a "Subpart I Summary Information for this Facility" section with three main steps: 1) DOWNLOAD FORM (with a link to "Subpart I Reporting Form"), 2) UPLOAD COMPLETED FORM (with a "Browse" button and an "UPLOAD" button), and 3) UPLOAD SUPPORTING FILE(S) (with a "Browse" button and an "UPLOAD" button). There are also tables for "Uploaded File Name", "Attached By", "Date", and "Delete" for both the completed form and supporting files, both of which currently show "No files found." At the bottom, there is a "Subpart I Emissions Summary" table with columns for "GHG Name", "CAS Number", "Unrounded Total Emissions (metric tons)", and "Rounded Total Emissions (metric tons)", which currently shows "No available data found." The page footer includes "Paperwork Reduction Act Burden Statement | Contact Us" and "e-GGRT RY2012 R.26 | overview".

## Subpart I Reporting Form

Please see [Reporting Form Instructions](#) on downloading the blank reporting form and uploading the completed reporting form. You may also refer to [Optional Calculation Spreadsheet Instructions](#) to download the Subpart I calculation spreadsheet.



### Use of Best Available Monitoring Methods (BAMM)

Please note: Only report the use of BAMM on the Subpart I reporting form if you have reported BAMM on Subpart A - General Information. Only facilities or suppliers that have been approved by EPA to use BAMM or have automatically been granted BAMM under the rule should report use of BAMM.

- Subpart I - Facility Details
- Subpart I - F-GHG Emissions Information for PV, MEMS, and LCD Manufacturing (By Process)
- Subpart I - F-GHG Emissions Information for Semiconductor Manufacturing (By Process)
- Subpart I - Recipe Information for Facilities Employing Recipe-specific Factors (By Recipe)
- Subpart I - N<sub>2</sub>O Emissions from Chemical Vapor Deposition and Other Electronics Manufacturing Processes
- Subpart I - Fluorinated Heat Transfer Fluid Information
- Subpart I - Emissions Abatement Systems

Subpart I also allows users to upload a file which certifies that the abatement system or abatement system class in place at the facility was designed for f-GHG and N<sub>2</sub>O abatement. If the default DRE value was used to report controlled emissions for an abatement system or

abatement system class, you must upload a PDF file containing a certification that the abatement system or abatement system class was designed for f-GHG and N2O abatement. The filename of each file uploaded must be reported on the Abatement Systems sheet of the Subpart I Reporting Form and must be uploaded in the "Upload Supporting Forms" area on the Subpart I Upload Page.

## Completed Subpart I Reporting Form

After you have successfully uploaded your completed Subpart I reporting form, the page will be updated to reflect the file you have uploaded. The Subpart I upload screen will display a summary of your reporting by chemical at the bottom of the page, as seen below.

Click image to expand

The screenshot shows the EPA e-GGRT web interface for Test Facility 1: Electronics Manufacturing (2012). The page is titled "Subpart I: Electronics Manufacturing (2012)" and includes a "Subpart Overview" link. The main content area is divided into several sections:

- OVERVIEW OF SUBPART REPORTING REQUIREMENTS:** A detailed text block explaining the reporting requirements for affected facilities, including the need to report emissions of fluorinated GHGs from various processes and the requirement to download and complete reporting forms.
- SUBPART I SUMMARY INFORMATION FOR THIS FACILITY:** A section for facility-specific information.
- 1) DOWNLOAD FORM:** A link to download the Subpart I Reporting Form.
- 2) UPLOAD COMPLETED FORM:** A section with a "Browse..." button and an "UPLOAD" button. Below this, a warning message states: "EPA has finalized a rule that defers the deadline for reporting certain data elements used as inputs to emission equations for direct emitters until March 31, 2015. See 76 FR 52957 published August 25, 2011. In accordance with the rule, e-GGRT is not currently collecting this subset of inputs to emission equations. If you choose to report these inputs to EPA by including them in a file uploaded to this page, please note that the inputs may be subject to public release." Below the warning is a table with columns: "Uploaded File Name", "Attached By", "Date", and "Delete". One file is listed: "Subpart I Reporting Form --#2\_SAMPE FOR help content.xls".
- 3) UPLOAD SUPPORTING FILE(S):** A section with a "Browse..." button and an "UPLOAD" button. Below this, a note states: "If the default DRE value was used to report controlled emissions for an abatement system or abatement system class, upload a PDF file containing a certification that the abatement system or abatement system class was designed for f-GHG and N2O abatement. The filename of each file uploaded must be reported on the Abatement Systems sheet of the Subpart I Reporting Form." Below the note is a table with columns: "Uploaded File Name", "Attached By", "Date", and "Delete". It shows "No files found."
- SUBPART I EMISSIONS SUMMARY:** A table with columns: "GHG Name", "CAS Number", "Unrounded Total Emissions (metric tons)", and "Rounded Total Emissions (metric tons)". One row is shown for "PFC-14 (Perfluoromethane)" with a CAS Number of 75-73-0, Unrounded Total Emissions of 5, and Rounded Total Emissions of 5.0000.

The footer of the page includes "Paperwork Reduction Act Burden Statement | Contact Us" and "e-GGRT RY2012 R.26 | 1 of 6 views".

If you attempt to upload a file but your file is not accepted by e-GGRT, it is generally because your file has a fatal flaw or is missing essential data. The reason why the file was not acceptable is displayed as a screen error on the upload page. For an example of a screen error message, see below.

Click image to expand

United States Environmental Protection Agency | e-GGRT Electronic Greenhouse Gas Reporting Tool

HOME | FACILITY REGISTRATION | FACILITY MANAGEMENT | DATA REPORTING

Test Facility 1  
**Subpart I: Electronics Manufacturing (2012)**  
 Subpart Overview

**OVERVIEW OF SUBPART REPORTING REQUIREMENTS**  
 Subpart I requires affected facilities to report emissions of fluorinated GHGs from plasma etching, chamber cleaning, and wafer cleaning; nitrous oxide emitted from chemical vapor deposition and other electronics manufacturing processes; and emissions of fluorinated heat transfer fluids at the facility level. If you are subject to other subparts (e.g. Subpart C) you should return to the Facility Overview page, select the appropriate subpart(s), and complete the data reporting requirements of each subpart. To satisfy the Subpart I reporting requirements you will first download the Subpart I reporting form(s). Use the link provided to access the form(s) and find instructions for completing those forms. Next, you will upload the completed form and e-GGRT will validate the data contained within it. Use the "View Validation" link to review any issues found in your reporting form. If necessary, make any revisions necessary to your reporting form and upload the revised reporting form.

For additional information about Subpart I reporting, please use the e-GGRT Help link(s) provided.

**SCREEN ERRORS**  
 You did not select either Yes or No for the question "Does your facility have any abatement systems through which fluorinated GHGs or N<sub>2</sub>O flow and which are designed for abatement of fluorinated GHGs or N<sub>2</sub>O?" on the "7. Abatement Systems" tab of the reporting form. Please select Yes or No to allow e-GGRT to process your form.

1.) DOWNLOAD FORM  
 Subpart I Reporting Form

2.) UPLOAD COMPLETED FORM  
 Browse... | **UPLOAD**

EPA has finalized a rule that defers the deadline for reporting certain data elements used as inputs to emission equations for direct emitters until March 31, 2015. See 76 FR 53657 (published August 25, 2011). In accordance with the rule, e-GGRT is not currently collecting this subset of inputs to emission equations. If you choose to report these inputs to EPA by including them in a file uploaded to this page, please note that the inputs may be subject to public release.

Uploaded File Name	Attached By	Date	Delete
Subpart I Reporting Form - v12_SAMPE FOR help content.xls			X

3.) UPLOAD SUPPORTING FILE(S)  
 Browse... | **UPLOAD**

If the default DRE value was used to report controlled emissions for an abatement system or abatement system class, upload a PDF file containing a certification that the abatement system or abatement system class was designed for F-GHG and N<sub>2</sub>O abatement. The filename of each file uploaded must be reported on the Abatement Systems sheet of the Subpart I Reporting Form.

Uploaded File Name	Attached By	Date	Delete
No files found.			

**SUBPART I EMISSIONS SUMMARY**

GHG Name	CAS Number	Unrounded Total Emissions (metric tons)	Rounded Total Emissions (metric tons)
PF2-14 (Perfluoromethane)	75-73-0	5	5.0000

Facility Overview

Paperwork Reduction Act/Burden Statement | Contact Us | e-GGRT RY2012 R.25 | 1-overview

During the upload, e-GGRT will generate a validation report which will list potential deficiencies or issues with your reporting form. Click on the "Subpart I: View Validation" link to review your validation report. An explanation of the validation report and the process for correcting validation issues prior to submission is presented in [Reporting Form Validation](#)

Once you have addressed the validation issues to the extent you believe necessary, and once you have completed any other applicable subparts, you must generate, review, certify, and submit your annual report as described in [How to Submit an Annual Report](#)

## Subpart I - Emissions Abatement Systems

### Subpart I - Emissions Abatement Systems

Please see [Reporting Form Instructions](#) on downloading the blank reporting form and uploading the completed reporting form. You may also refer to [Optional Calculation Spreadsheet Instructions](#) to download the Subpart I calculation spreadsheet.

#### Indicate if the facility has any abatement systems

- Select the appropriate radio button
- If you don't have any abatement systems through which F-GHGs or N<sub>2</sub>O flow, then no further information is required

- 1.) **Does your facility have any abatement systems through which fluorinated GHGs or N<sub>2</sub>O flow and which are designed for abatement of fluorinated GHGs or N<sub>2</sub>O?**  Yes  No

#### Fill out the abatement system information table.

- The name of the abatement system or class of abatement systems used at the facility
- The manufacturer
- The model number(s) (for a class, list each model number separated by a comma)
- The file name for the certification statement if you used the default DRE value to report controlled emissions
- The number of systems in each class for which the DRE was properly measured
- The method used to determine the "class" DRE value
- The method used to select individual abatement systems for testing
- The type of product associated with the abatement system or class of abatement systems
- The tool types associated with the abatement system or class of abatement systems

- The model numbers of the tools associated with the abatement system or class of abatement systems
- The process sub-types or process types associated with each abatement system or class of abatement systems
- Certify the abatement system has been installed, maintained and operated in accordance with the manufacturer's specifications
- The name of each F-GHG or N<sub>2</sub>O in the effluent stream
- The manufacturer DRE value for the abatement system

## Subpart I - Facility Details

### Subpart I - Facility Details

Please see [Reporting Form Instructions](#) on downloading the blank reporting form and uploading the completed reporting form. You may also refer to [Optional Calculation Spreadsheet Instructions](#) to download the Subpart I calculation spreadsheet.

#### Fill out the general information table.

- GHGRP ID is required. (the GHGRP ID on the reporting form must match the facility ID in e-GGRT)
- Reporting Year is required. (for RY2012 this must be reported as "2012")

1.) Fill out the following table with general information about this facility:

Facility Name:	
GHGRP ID:	
Reporting Period:	
Comments: (optional)	

#### Fill out the facility type and manufacturing information table.

- The types of products manufactured at your facility
  - If you are a semiconductor manufacturer, indicate the size (or sizes) of wafers you manufacture.
- The manufacturing capacity you calculated using the method in Equation I-5,
- The annual production.

2.) Enter the facility type and manufacturing information required in the table below:

Does facility manufacture semiconductors? [§98.96]	Does facility manufacture MEMS, PVs, and/or LCDs? [§98.96]	Annual Manufacturing Capacity of the Facility as Determined by Eq. I-5 (square meters) [§98.96(a)]	Annual Production in Terms of Substrate Area (square meters) [§98.96(e)]	Only for semiconductor manufacturing facilities				If facility manufactures wafers smaller than 150 mm in diameter, please list the specific size(s) manufactured [§98.96(b)]
				Does facility manufacture 150 millimeter wafers? [§98.96(b)]	Does facility manufacture 200 millimeter wafers? [§98.96(b)]	Does facility manufacture 300 millimeter wafers? [§98.96(b)]	Does facility manufacture wafers larger than 300 millimeters? [§98.96(b)]	
Yes	No	19800	14500	Yes	Yes	No	No	100, 200

#### Fill out the apportioning model information table.

- The metric used in the engineering model for apportioning gas consumption between recipes, process sub-types, or process types.
- The start and end dates for when you monitored gas consumption to validate the apportioning model.
- Indicate whether the gases selected for monitoring correspond to the largest quantities consumed on a mass basis by your facility during the reporting year for the plasma etching and chamber cleaning process types.
- The relative percent difference between the modeled and actual gas consumption under the plasma etching process type when you performed the apportioning model verification.

3.) Enter the apportioning model data required in the table below:

Quantifiable Metric used in Engineering Model to Apportion Gas Consumption [§98.96(m)(i)]	Start Date Selected under §98.94(c)(2)(i) [MM/DD/YYYY] [§98.96(m)(ii)]	End Date Selected under §98.94(c)(2)(i) [MM/DD/YYYY] [§98.96(m)(ii)]	Certification that the gases you selected under §98.94(c)(2)(ii) correspond to the largest quantities consumed on a mass basis, at your facility in the reporting year for the plasma etching process type and the chamber cleaning process type. [§98.96(m)(iii)]	Result of calculation comparing actual to modeled etch gas consumption under §98.94(c)(2)(iii) (%) [§98.96(m)(iv)]
Wafer Starts	01/01/2011	01/29/2011	Certified	4.50%

## Subpart I - F-GHG Emissions Information for PV, MEMS, and LCD Manufacturing (By Process)

## Subpart I - F-GHG Emissions Information for PV, MEMS, and LCD Manufacturing (By Process)

Please see [Reporting Form Instructions](#) on downloading the blank reporting form and uploading the completed reporting form. You may also refer to [Optional Calculation Spreadsheet Instructions](#) to download the Subpart I calculation spreadsheet.

### Fill out the PV, MEMS, and/or LCD manufacturing processes that DO NOT use recipe-specific emission factors information table.

- The names of the F-GHGs emitted from the manufacturing process (for "other F-GHG," provide the name, CAS number, and chemical formula)
- The process type (if an F-GHG is used in more than one process type, report the F-GHG multiple times and select the different process types)
- The method used to calculate emissions
- The emissions of each F-GHG for each process type

1.) Complete the table below for each F-GHG emitted from a PV, MEMS, or LCD manufacturing process for which emissions were NOT estimated using recipe-specific factors. If two emissions calculation methods are used for one F-GHG / process type combination, please report the combination twice and select the different methods in column G.

Name of each F-GHG emitted [§ 98.96(c)(1)]	CAS Lookup	Specify "Other F-GHG" Name [§ 98.96(c)(1)]	Specify "Other F-GHG" CAS No. [§ 98.96(c)(1)]	Specify "Other F-GHG" Chemical Formula [§ 98.96(c)(1)]	Process Type [§ 98.96(c)(1)]	Method of Emissions Calculation <small>NOTE: If two emissions calculation methods are used for one F-GHG / process type combination, please report the combination twice and select the different methods in this column.</small> [§ 98.96(d)]	Total Annual Emissions (metric tons/yr) [§ 98.96(c)(1)]	GWP Lookup <small>(Note: If an F-GHG is not in Table A-1, these values will remain 0.)</small>	CO <sub>2</sub> e Conversion (metric tons/yr) <small>(Note: If an F-GHG is not in Table A-1, these values will remain 0.)</small>
	#N/A							0	0
	#N/A							0	0
	#N/A							0	0
	#N/A							0	0
	#N/A							0	0
	#N/A							0	0
	#N/A							0	0
	#N/A							0	0
	#N/A							0	0
	#N/A							0	0
	#N/A							0	0

## Subpart I - F-GHG Emissions Information for Semiconductor Manufacturing (By Process)

### Subpart I - F-GHG Emissions Information for Semiconductor Manufacturing (By Process)

Please see [Reporting Form Instructions](#) on downloading the blank reporting form and uploading the completed reporting form. You may also refer to [Optional Calculation Spreadsheet Instructions](#) to download the Subpart I calculation spreadsheet.

### Fill out the semiconductor manufacturing processes that DO NOT use recipe-specific factors information table.

- The names of the F-GHGs emitted from the semiconductor process (if you select "other F-GHG," provide the name, CAS number, and chemical formula)
- The process type (if an F-GHG is used in more than one process type, report the F-GHG multiple times and select the different process types)
- The method used to calculate emissions
- The emissions of each F-GHG

1.) Complete the table below for each F-GHG emitted from a semiconductor manufacturing process for which emissions were NOT estimated using recipe-specific factors. If two emissions calculation methods are used for one F-GHG / process type combination, please report the combination twice and select the different methods in column G.

Name of each F-GHG emitted [§ 98.96(c)(1)]	CAS Lookup	Specify "Other F-GHG" Name [§ 98.96(c)(1)]	Specify "Other F-GHG" CAS No. [§ 98.96(c)(1)]	Specify "Other F-GHG" Chemical Formula [§ 98.96(c)(1)]	Process Type [§ 98.96(c)(1)]	Method of Emissions Calculation <small>NOTE: If two emissions calculation methods are used for one F-GHG / process type combination, please report the combination twice and select the different methods in this column.</small> [§ 98.96(d)]	Total Annual Emissions (metric tons/yr) [§ 98.96(c)(1)]	GWP Lookup <small>(Note: If an F-GHG is not in Table A-1, these values will remain 0.)</small>	CO <sub>2</sub> e Conversion (metric tons/yr) <small>(Note: If an F-GHG is not in Table A-1, these values will remain 0.)</small>
	#N/A							0	0
	#N/A							0	0
	#N/A							0	0
	#N/A							0	0
	#N/A							0	0
	#N/A							0	0
	#N/A							0	0
	#N/A							0	0
	#N/A							0	0
	#N/A							0	0
	#N/A							0	0

## Subpart I - Fluorinated Heat Transfer Fluid Information

### Subpart I - Fluorinated Heat Transfer Fluid Information

Please see [Reporting Form Instructions](#) on downloading the blank reporting form and uploading the completed reporting form. You may also refer to [Optional Calculation Spreadsheet Instructions](#) to download the Subpart I calculation spreadsheet.

### Fill out the fluorinated heat transfer fluid information table.

- The names of the heat transfer fluids used at the facility

- The emissions calculation method
- The total annual emissions for each fluorinated heat transfer fluid used

1.) Complete the table below for each fluorinated heat transfer fluid used at your facility.

Fluorinated Heat Transfer Fluid (f-HTF) Name [§98.96(c)(4)]	CAS Lookup	Specify "Other f-HTF" Name [§98.96(c)(4)]	Specify "Other f-HTF" CAS No. [§98.96(c)(4)]	Specify "Other f-GHG" Chemical Formula [§98.96(c)(4)]	Method of Emissions Calculation [§98.96(d)]	Total Annual Emissions (metric tons/yr) [§98.96(c)(4)]
FC-70 (Perfluorotripropylamine)	338-84-1				Equation I-16 (mass b	18 9000
	#N/A					

## Subpart I - N<sub>2</sub>O Emissions from Chemical Vapor Deposition and Other Electronics Manufacturing Processes

### Subpart I - N<sub>2</sub>O Emissions from Chemical Vapor Deposition and Other Electronics Manufacturing Processes

Please see [Reporting Form Instructions](#) on downloading the blank reporting form and uploading the completed reporting form. You may also refer to [Optional Calculation Spreadsheet Instructions](#) to download the Subpart I calculation spreadsheet.

#### Fill out the chemical vapor deposition processes information table.

- The method used to calculate the emissions
- If facility-specific utilization factors were used, specify the method used to determine the factors
- N<sub>2</sub>O emissions from chemical vapor deposition processes
- Certify that the measurements were made are representative of the facility.
- If the measurements were made before January 1, 2007, certify that the facility-specific utilization factors were determined using the correct International SEMATECH version specified in the rule

1.) Complete the table below for chemical vapor deposition processes at your facility that use and emit N<sub>2</sub>O.

Method of Reporting Emissions [§98.96(f)]	Source of the facility-specific N <sub>2</sub> O utilization factor, if used [§98.96(f)(5)]	Specify "other" Source of the facility-specific N <sub>2</sub> O utilization factor [§98.96(f)(5)]	Total Annual N <sub>2</sub> O Emissions from Chemical Vapor Deposition (metric tons/yr) [§98.96(c)(3)]	Certification that the measurements for all reported facility-specific N <sub>2</sub> O utilization factors were made using the International SEMATECH #08124825A-ENG (incorporated by reference, see §98.7), or the International SEMATECH #01104197A-XFR (incorporated by reference, see §98.7) if measurements were made prior to January 1, 2007. [§98.96(f)(4)]	Certification that the conditions under which the measurements were made for facility-specific N <sub>2</sub> O utilization factors are representative of your facility's N <sub>2</sub> O emitting production processes. [§98.96(f)(6)]
Developed facility-specific utilization factor	Facility measured; International SEMATECH #08124825A-ENG		0.370 Certified	Certified	Certified

#### Fill out the other electronics manufacturing processes information table.

- The method used to calculate the emissions
- If facility-specific utilization factors were used, specify the method used to determine the factors
- N<sub>2</sub>O emissions from other electronics manufacturing processes
- Certify that the measurements were made are representative of the facility.
- If the measurements were made before January 1, 2007, certify that the facility-specific utilization factors were determined using the correct International SEMATECH version specified in the rule

2.) Complete the table below for other electronics manufacturing processes at your facility that use and emit N<sub>2</sub>O.

Method of Reporting Emissions [§98.96(f)]	Source of the facility-specific N <sub>2</sub> O utilization factor, if used [§98.96(f)(5)]	Specify "other" Source of the facility-specific N <sub>2</sub> O utilization factor [§98.96(f)(5)]	Total Annual N <sub>2</sub> O Emissions from all other N <sub>2</sub> O-using manufacturing processes (metric tons/yr) [§98.96(c)(3)]	Certification that the measurements for all reported facility-specific N <sub>2</sub> O utilization factors were made using the International SEMATECH #08124825A-ENG (incorporated by reference, see §98.7), or the International SEMATECH #01104197A-XFR (incorporated by reference, see §98.7) if measurements were made prior to January 1, 2007. [§98.96(f)(4)]	Certification that the conditions under which the measurements were made for facility-specific N <sub>2</sub> O utilization factors are representative of your facility's N <sub>2</sub> O emitting production processes. [§98.96(f)(6)]
Used default utilization factor from Table I-0			0.100 N/A - did not use facility-specific factors	N/A - did not use facility-specific factors	N/A - did not use facility-specific factors

## Subpart I - Recipe Information for Facilities Employing Recipe-specific Factors (By Recipe)

### Subpart I - Recipe Information for Facilities Employing Recipe-specific Factors (By Recipe)

Please see [Reporting Form Instructions](#) on downloading the blank reporting form and uploading the completed reporting form. You may also refer to [Optional Calculation Spreadsheet Instructions](#) to download the Subpart I calculation spreadsheet.

#### Fill out the certification information table.

- Certify recipes included in a set are in fact similar as defined in §98.98
  - If yes, then select "Certified"
  - If no, then select "Used BMM"
  - If only one recipe was used for each factor, then enter "Not applicable - only individual recipes used"

