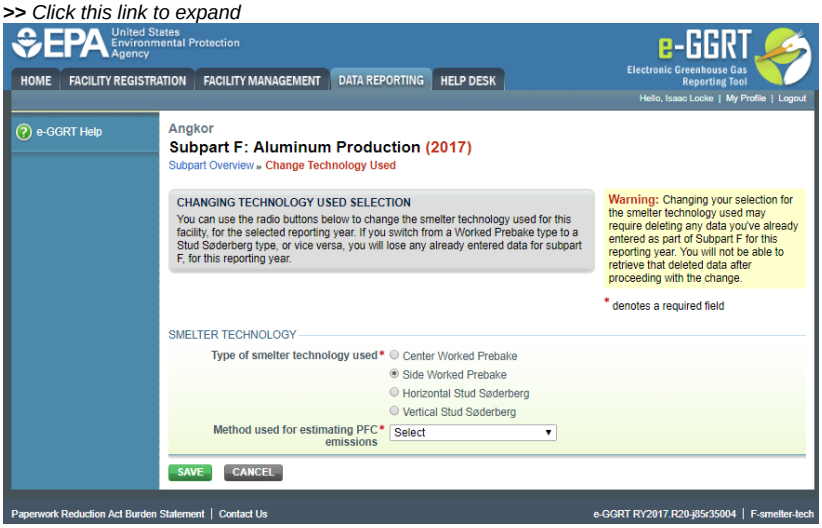
Using e-GGRT to Prepare Your Subpart F Report for RY2014 and Later Years

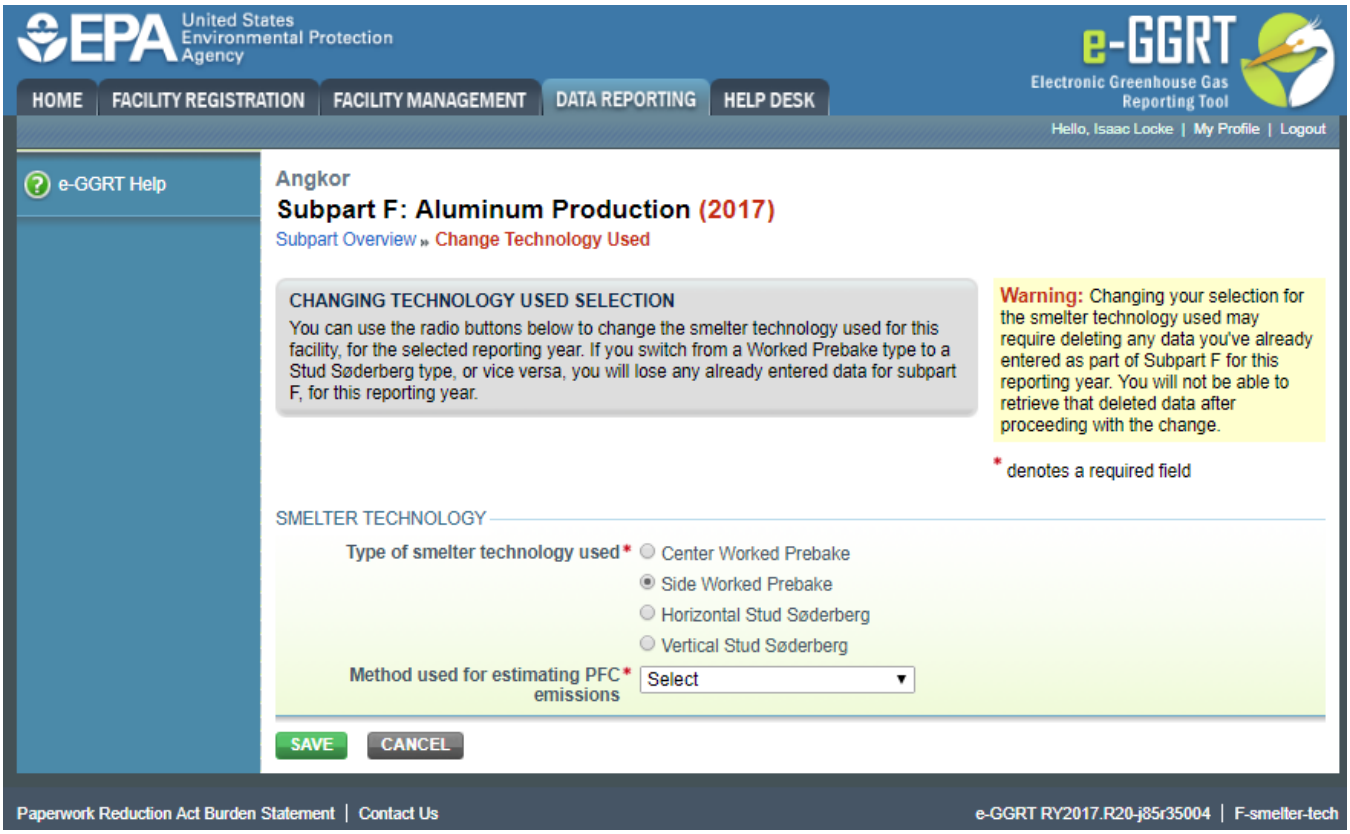
This page provides an overview of Subpart F reporting through e-GGRT.

Once you have added Subpart F to the list of subparts you plan to report on, click on the "Open" link next to Subpart F.

First, you must indicate the smelting technology or configuration used at your facility. Once you have made a selection, click SAVE.

>> *Click this link to expand*

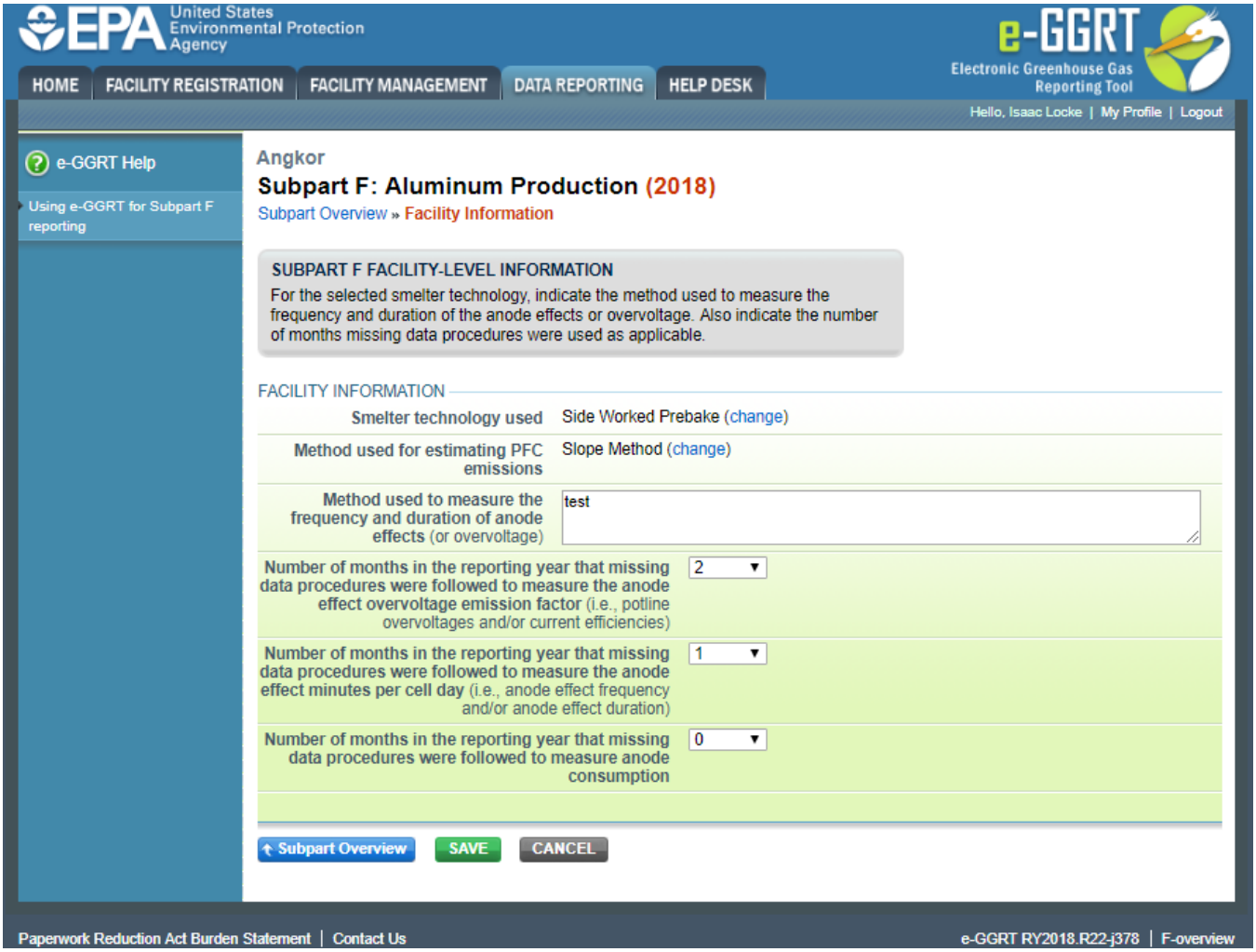




When you first open the Subpart F Overview page it will have no facility information or units reflected. In future reporting years your facility data and units will be carried over from the prior reporting year.

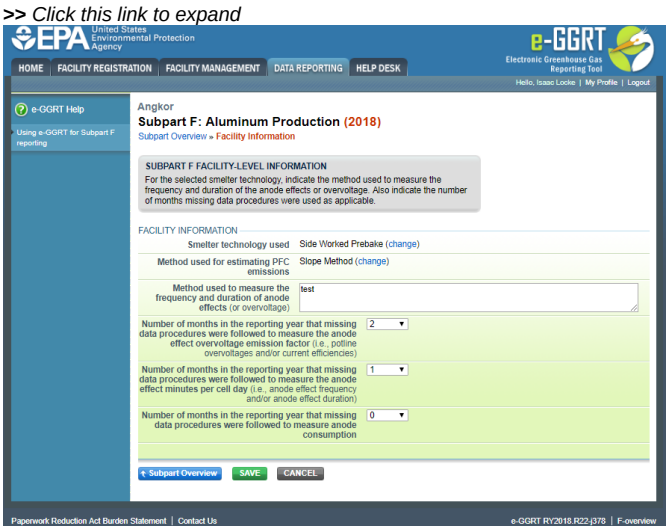
To start entering data click on the blue OPEN button in the Facility Information Section.

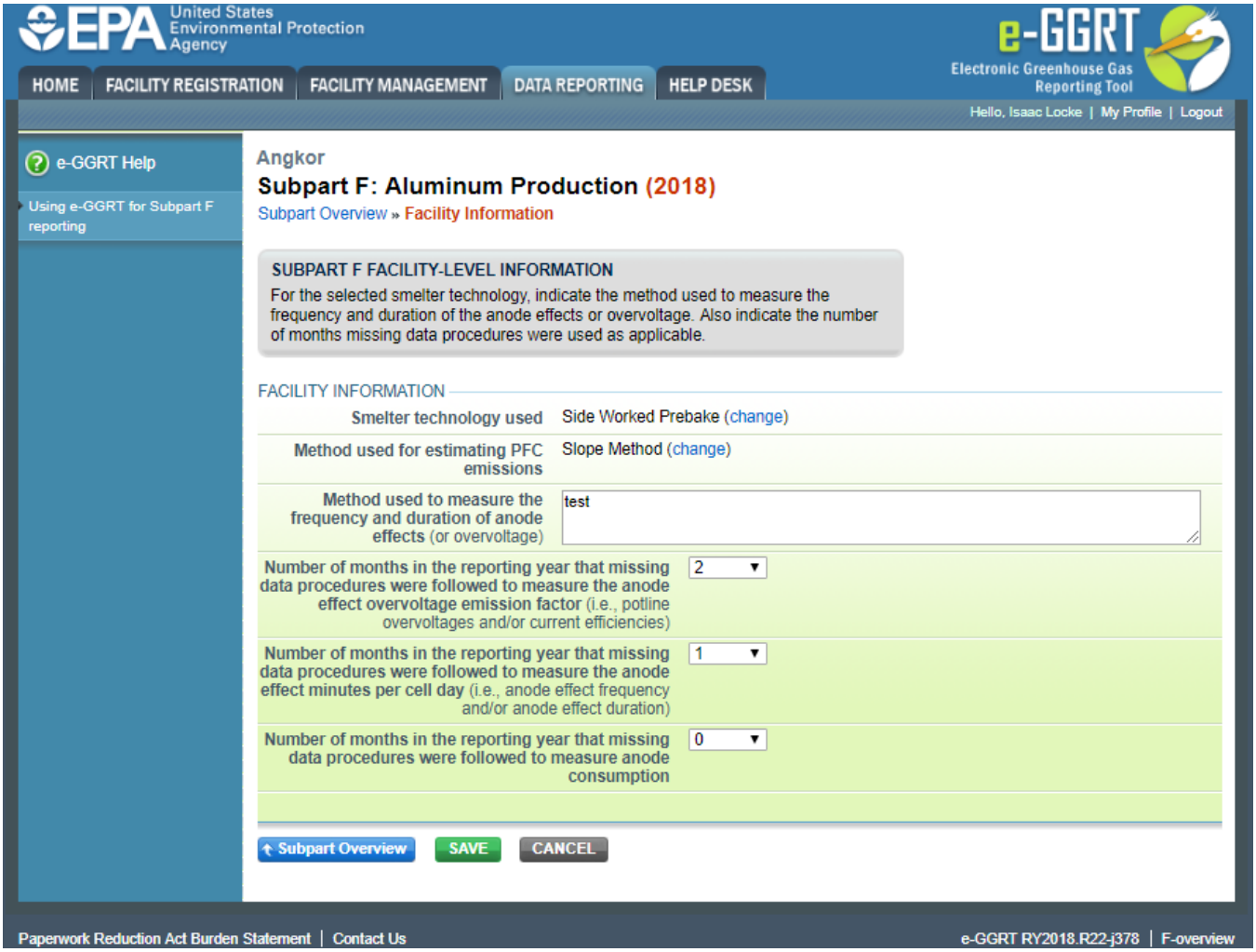
>> Click this link to expand



This will open the Facility Information page. After entering the information, click SAVE. This will take you back to the Subpart F Overview page.

>> Click this link to expand



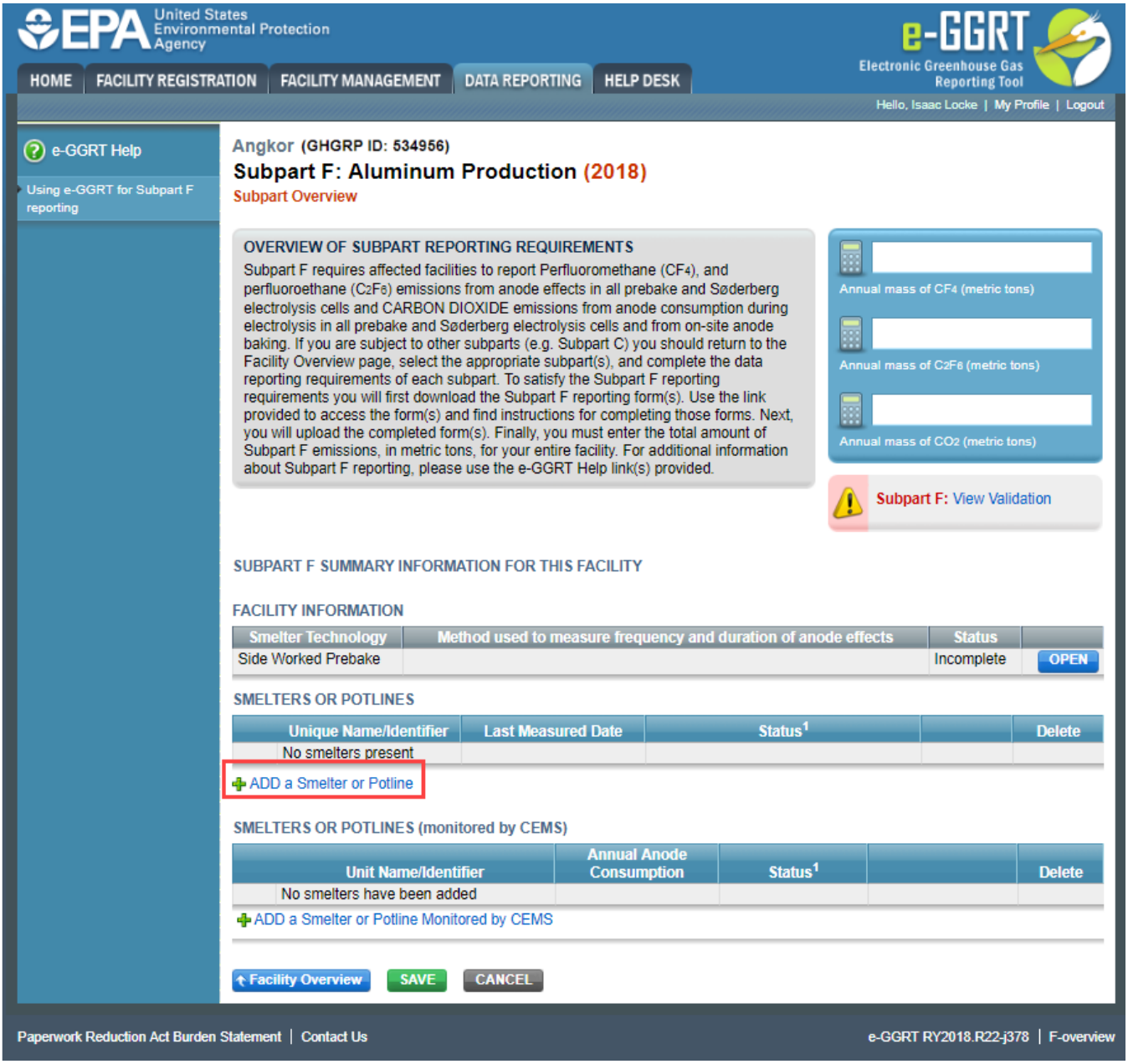


Note that you have the option of changing the smelter technology by selecting the “Change” hyperlink.

ADD a Smelter or Potline NOT Monitored by CEMS

Click the "ADD a Smelter or Potline" link to open the Smelter Information page and add data for each Smelter or Potline.

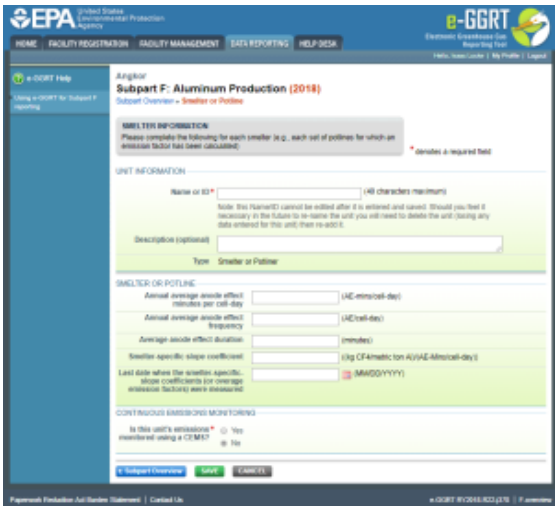
>> Click this link to expand

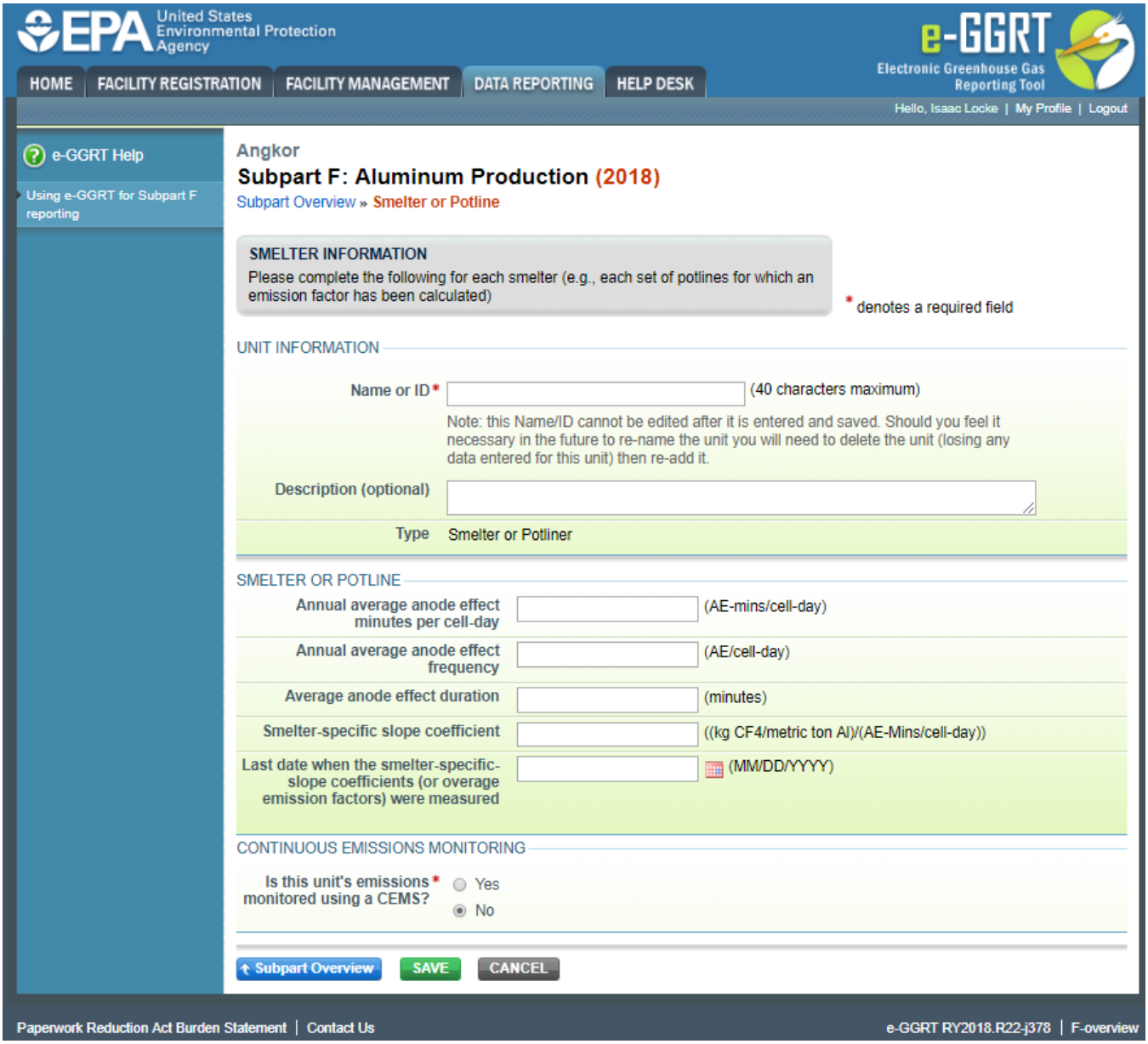


Enter the following information:

- Name of ID
- Description (optional)
- Annual average anode effect minutes per cell-day
- Annual average anode effect frequency
- Average anode effect duration
- Smelter-specific slope coefficient
- Last date when the smelter-specific-slope coefficients (or overage emission factors) were measured

>> Click this link to expand





When finished, click SAVE. You will be returned to the Subpart F Overview page.

Repeat the above process for each smelter or potline.

From the Subpart F Overview page, click the OPEN button for the Smelter or Potline. This will open the Smelter or Potline PFC Emissions Summary page.

>> *Click this link to expand*

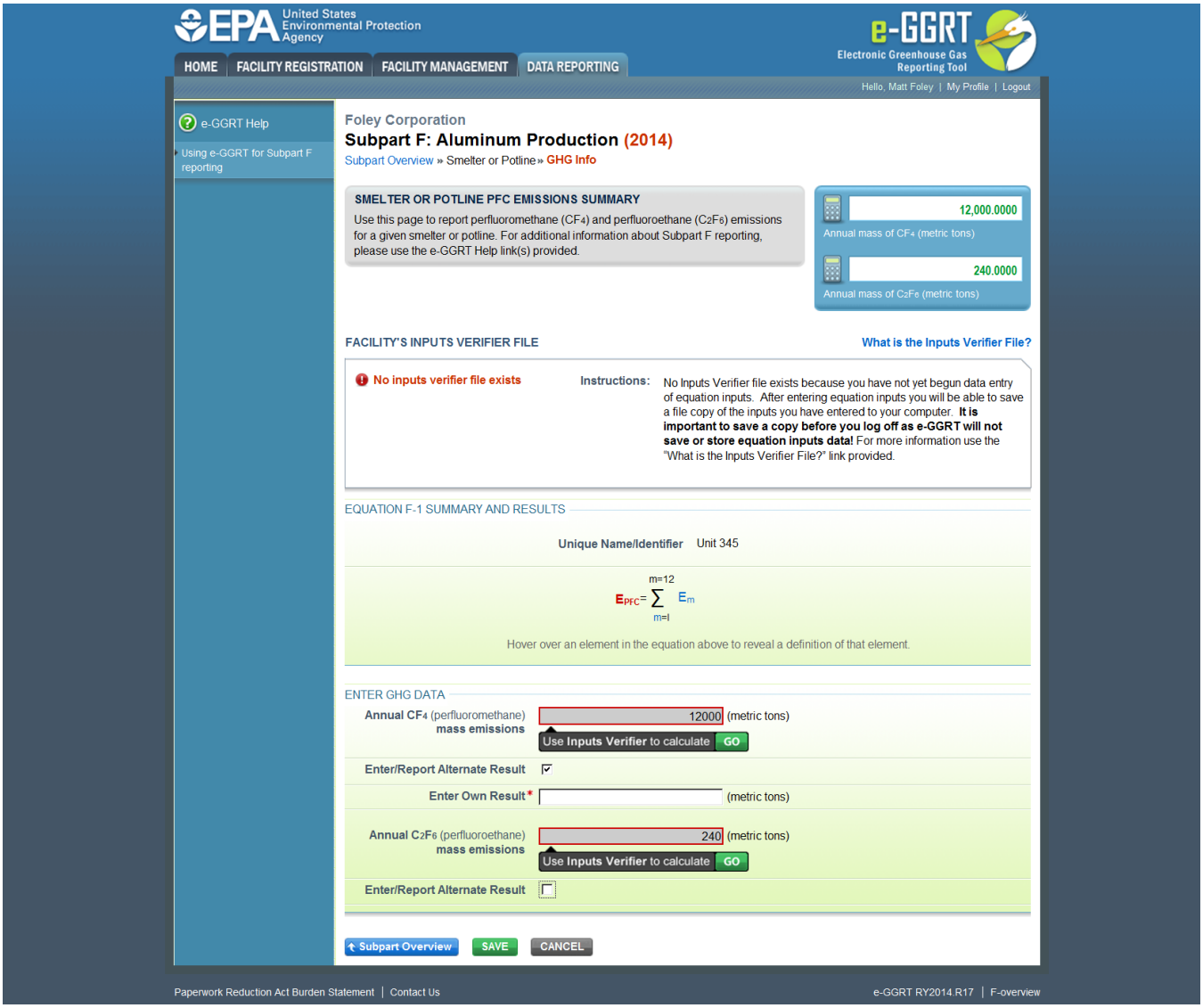
Enter the following information:

- Annual CF_4 (perfluoromethane) mass emissions. See Subpart F Entering Equation Inputs Using IVT for instructions on how to enter your equation inputs in the inputs verifier module.
- Annual C_2F_6 (prefluoroethane) mass emissions. See Subpart F Entering Equation Inputs Using IVT for instructions on how to enter your equation inputs in the inputs verifier module.

After entering equation inputs in the inputs verifier module, the results will be displayed on the Smelter or Potline PFC Emissions Summary page.

NOTE: If you wish to report your own result, click on the "Enter/Report Alternate Result" check box and enter the data in the "Enter Own Result" field.

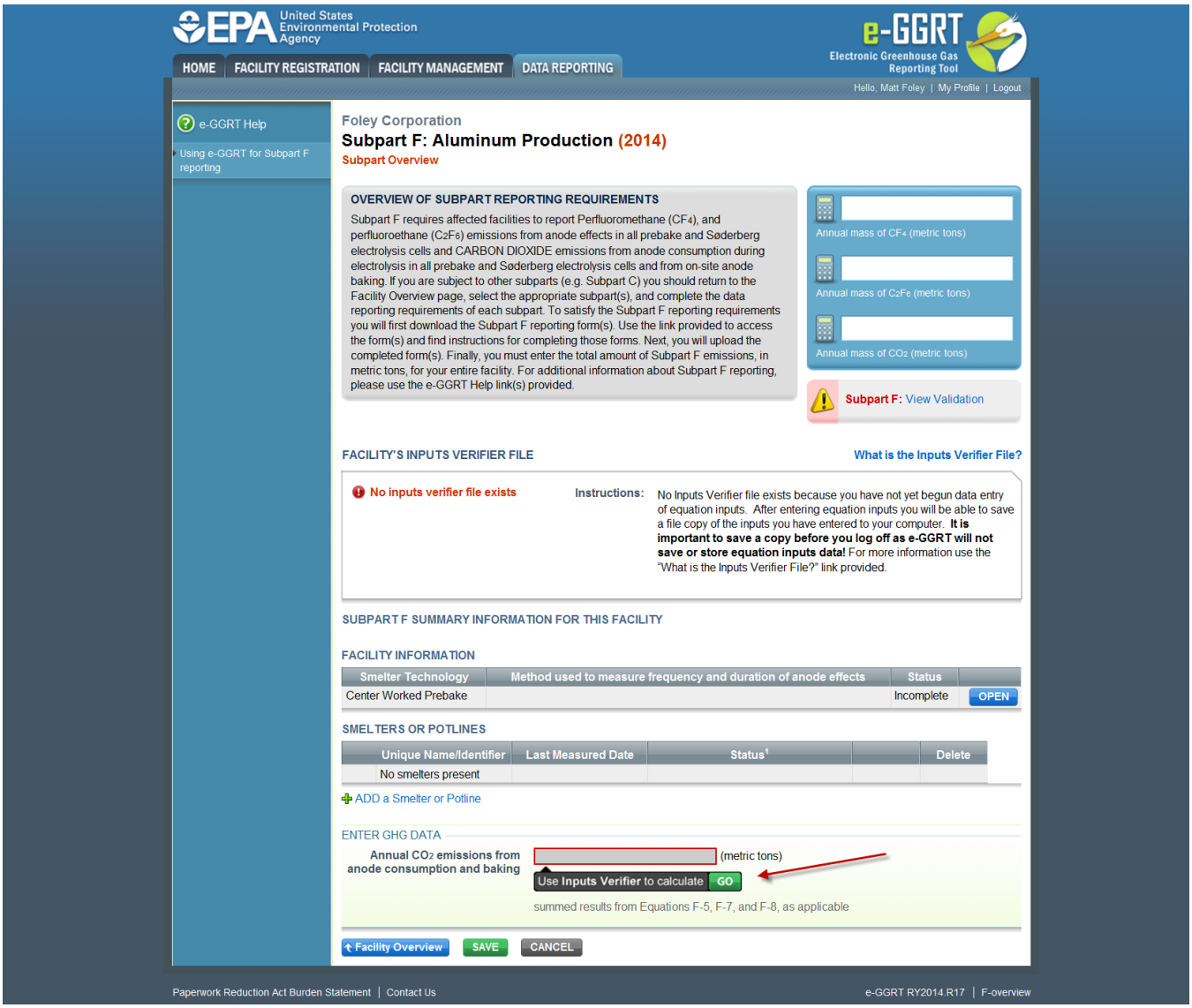
>> *Click this link to expand*



After finishing, click the Subpart Overview button to return to the Subpart F Overview page.

In the ENTER GHG DATA section at the bottom of the page, click the GO button to begin entering the annual CO_2 emissions from anode consumption and baking. See the Subpart F Entering Equation Inputs Using IVT for instructions on how to enter your equation inputs in the inputs verifier module.

***>>** Click this link to expand*

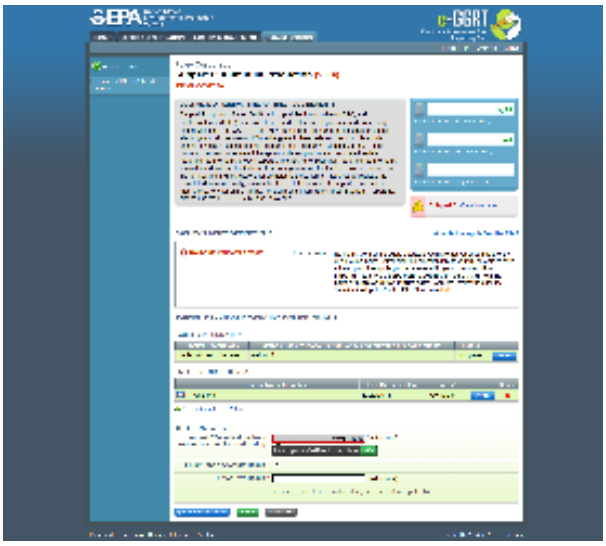


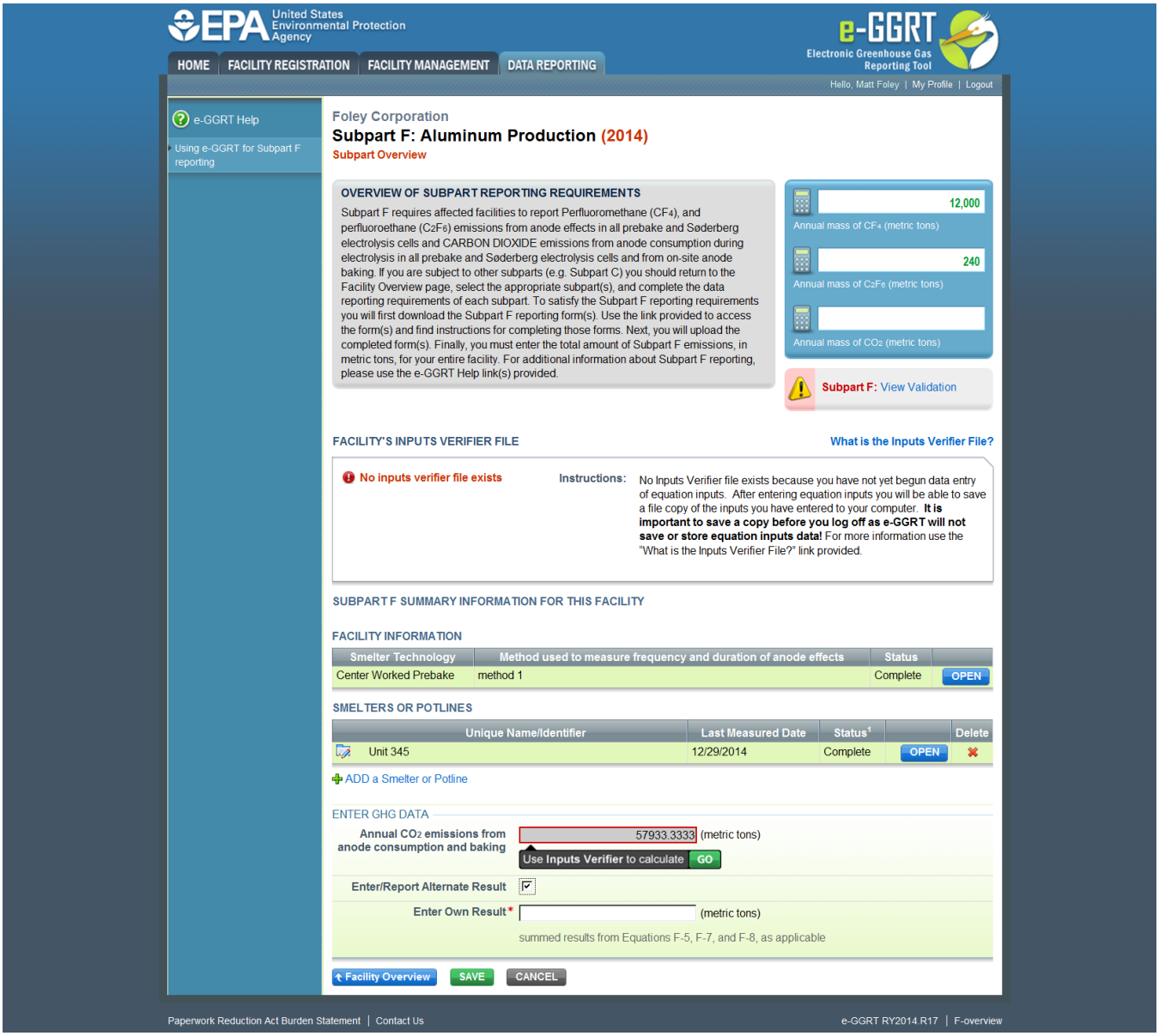
When finished, click SAVE.

Next, click the Facility Overview button.

NOTE: If you wish to report your own result, click on the "Enter/Report Alternate Result" check box and enter the data in the "Enter Own Result" field.

>> *Click this link to expand*

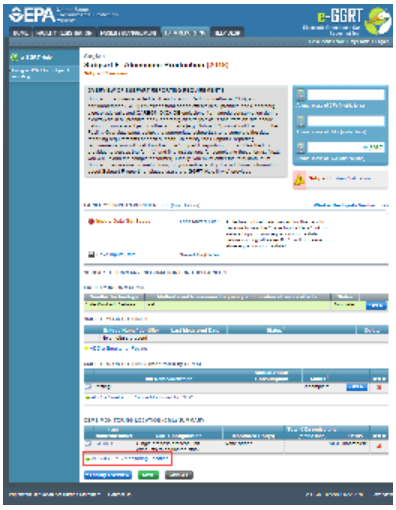


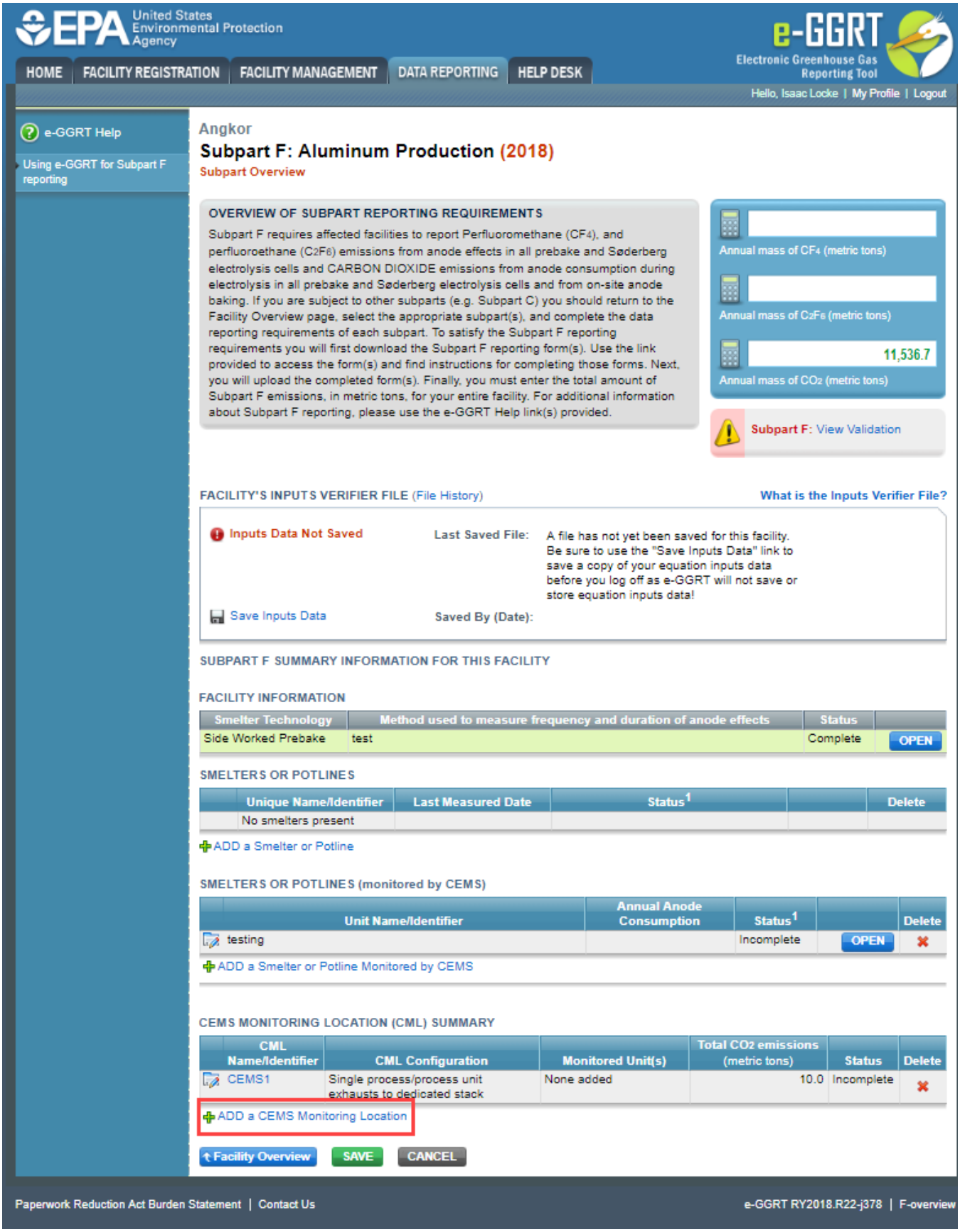


ADD a Smelter or Potline (Monitored by CEMS)

If a Smelter or Potline at your facility is monitored by CEMS for the reporting year, select the option to, "ADD a Smelter or Potline Monitored by CEMS".

>> *Click this link to expand*



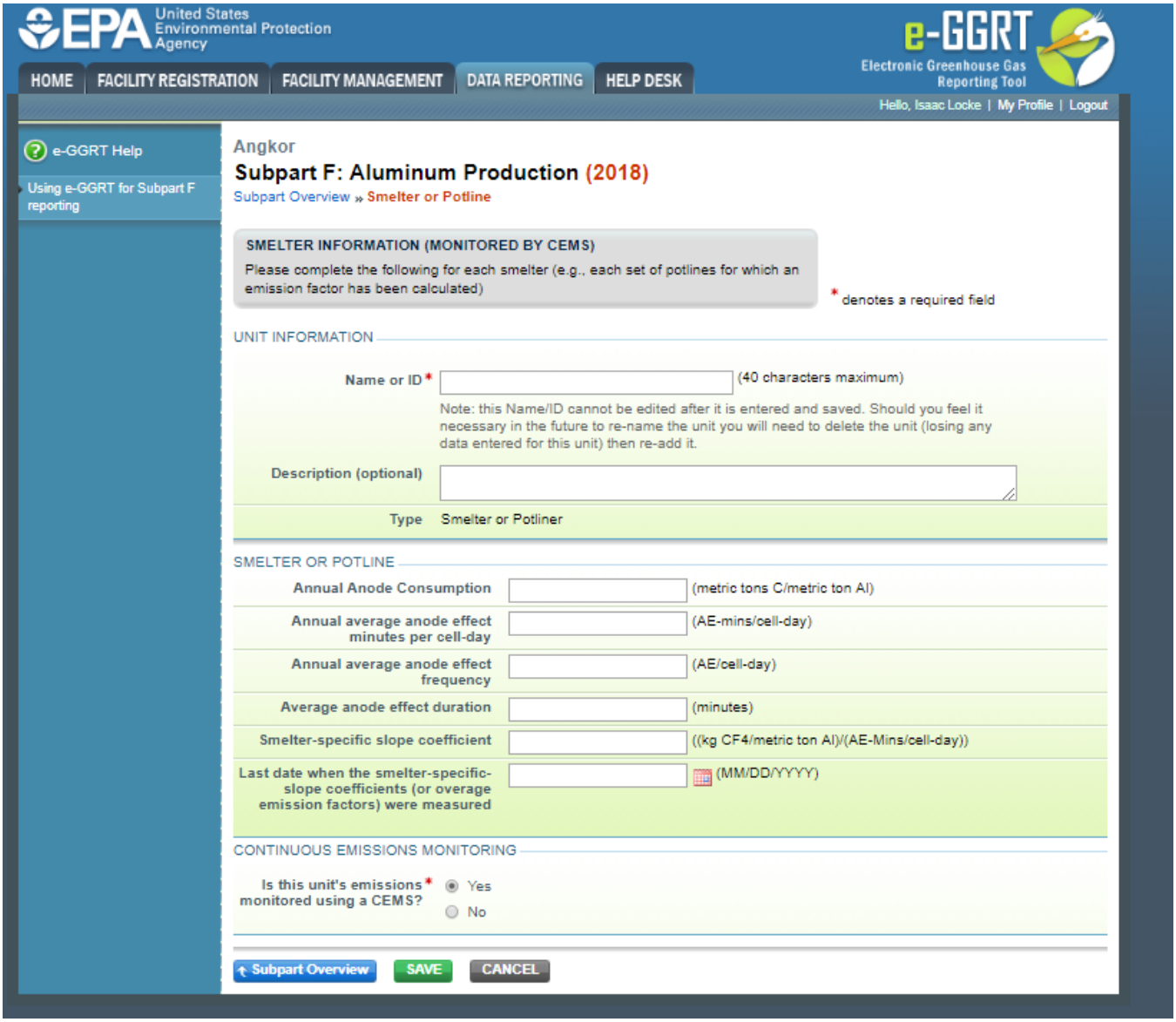


Enter the following information:

- Name of ID
- Description (optional)

- Annual average anode effect minutes per cell-day
- Annual average anode effect frequency
- Average anode effect duration
- Smelter-specific slope coefficient
- Last date when the smelter-specific-slope coefficients (or overage emission factors) were measured

>>



When finished, click SAVE. You will be returned to the Subpart F Overview page.

Repeat the above process for each smelter or potline.

From the Subpart F Overview page, click the OPEN button for the Smelter or Potline. This will open the Smelter or Potline PFC Emissions Summary page.

>> *Click this link to expand*

EPA
e-GGRT
HOME
FACILITY REGISTRATION
FACILITY MANAGEMENT
DATA REPORTING
HELP DESK
Angiker
Subpart F: Aluminum Production (2018)
SMELTER OR POTLINE PFC EMISSIONS SUMMARY
FACILITY'S INPUTS VERIFIER FILE
What is the Inputs Verifier File?
Inputs Data Not Saved
Save Inputs Data
EQUATION F-1 SUMMARY AND RESULTS
ENTER GHG DATA
Save
Cancel

Enter the following information:

- Annual CF_4 (perfluoromethane) mass emissions. See Subpart F Entering Equation Inputs Using IVT for instructions on how to enter your equation inputs in the inputs verifier module.
- Annual C_2F_6 (prefluoroethane) mass emissions. See Subpart F Entering Equation Inputs Using IVT for instructions on how to enter your equation inputs in the inputs verifier module.

After entering equation inputs in the inputs verifier module, the results will be displayed on the Smelter or Potline PFC Emissions Summary page.

NOTE: If you wish to report your own result, click on the "Enter/Report Alternate Result" check box and enter the data in the "Enter Own Result" field.

>> *Click this link to expand*

e-GGRT Help
Using e-GGRT for Subpart F reporting

Foley Corporation

Subpart F: Aluminum Production (2014)

Subpart Overview

OVERVIEW OF SUBPART REPORTING REQUIREMENTS

Subpart F requires affected facilities to report Perfluoromethane (CF_4), and perfluoroethane (C_2F_6) emissions from anode effects in all prebake and Søderberg electrolysis cells and CARBON DIOXIDE emissions from anode consumption during electrolysis in all prebake and Søderberg electrolysis cells and from on-site anode baking. 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 F reporting requirements you will first download the Subpart F 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(s). Finally, you must enter the total amount of Subpart F emissions, in metric tons, for your entire facility. For additional information about Subpart F reporting, please use the e-GGRT Help link(s) provided.

12,000
Annual mass of CF_4 (metric tons)

240
Annual mass of C_2F_6 (metric tons)

Annual mass of CO_2 (metric tons)

Subpart F: View Validation

FACILITY'S INPUTS VERIFIER FILE — What is the Inputs Verifier File?

No inputs verifier file exists

Instructions: No Inputs Verifier file exists because you have not yet begun data entry of equation inputs. After entering equation inputs you will be able to save a file copy of the inputs you have entered to your computer. **It is important to save a copy before you log off as e-GGRT will not save or store equation inputs data!** For more information use the "What is the Inputs Verifier File?" link provided.

SUBPART F SUMMARY INFORMATION FOR THIS FACILITY

FACILITY INFORMATION

Smelter Technology	Method used to measure frequency and duration of anode effects	Status	
Center Worked Prebake	method 1	Complete	OPEN

SMELTERS OR POTLINES

	Unique Name/Identifier	Last Measured Date	Status[1]		Delete
	Unit 345	12/29/2014	Complete	OPEN	✖

ADD a Smelter or Potline

ENTER GHG DATA

Annual CO_2 emissions from anode consumption and baking 57933.3333 (metric tons)

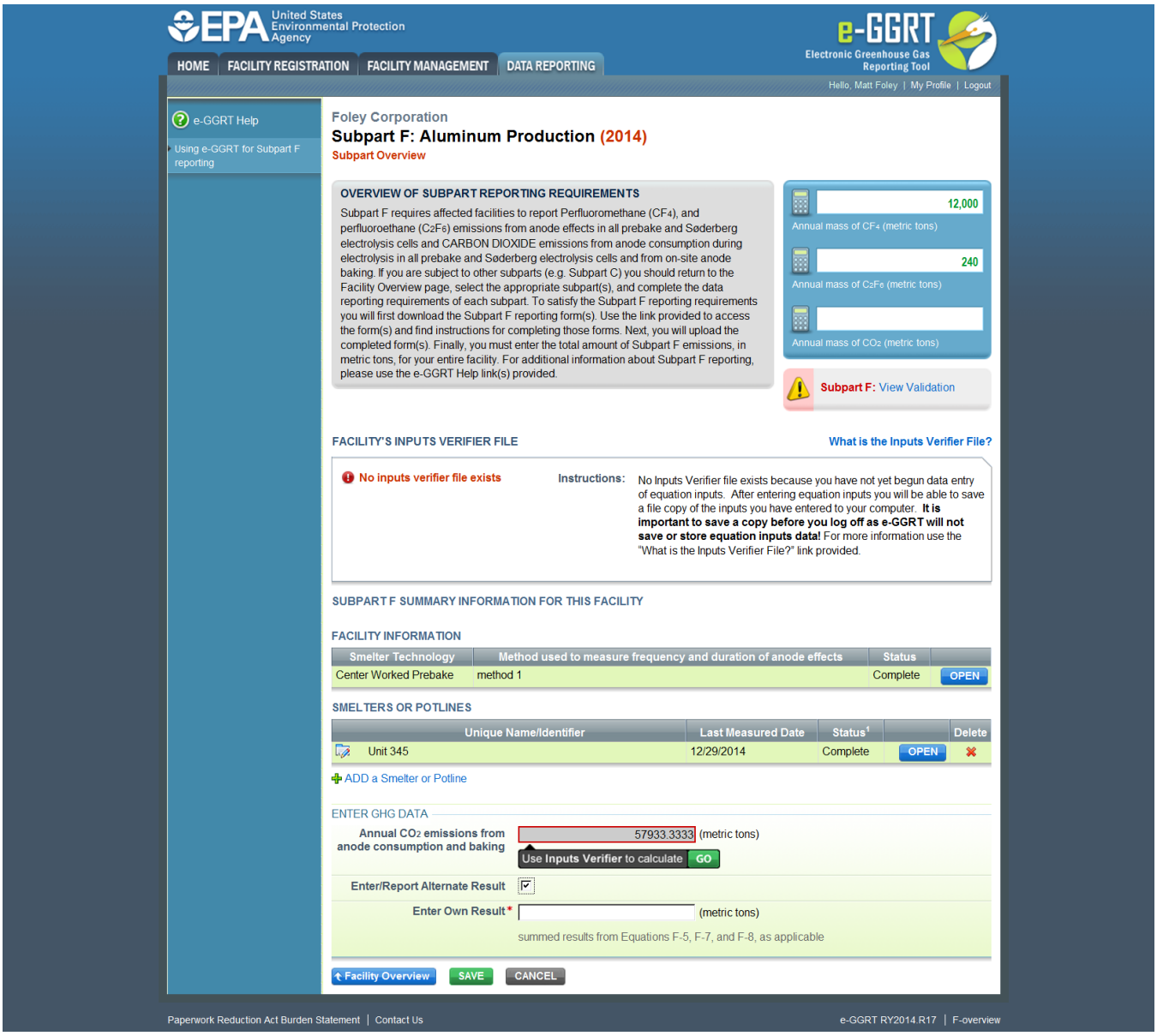
Use **Inputs Verifier** to calculate GO

Enter/Report Alternate Result ☑

Enter Own Result* (metric tons)

summed results from Equations F-5, F-7, and F-8, as applicable

Facility Overview | SAVE | CANCEL



After finishing, click the Subpart Overview button to return to the Subpart F Overview page.

Add/Edit CEMS Monitoring Location

Once you have identified an item monitored by CEMS, click the blue "Add a CEMS monitoring location" under the "CEMS Monitoring Locaiton (CML) Summary" and follow the instructions below.

Step 1: Add a CEMS Monitoring Location (CML)

To add a CML, click the “Add a CEMS Monitoring Location” link below the CEMS MONITORING LOCATION (CML) SUMMARY table on the Subpart Overview page

> The screenshot below is from Subpart G and is displayed as an example. The screen for other subparts may differ slightly.

>> Click this link to expand

e-GGRT Help

Using e-GGRT for Subpart G reporting

Foley Corporation

Subpart G: Ammonia Manufacturing (2014)

Subpart Overview

OVERVIEW OF SUBPART REPORTING REQUIREMENTS

Subpart G requires affected facilities to report carbon dioxide (CO_2) process emissions from each ammonia manufacturing process unit. First, use this page to identify each ammonia manufacturing process unit and then enter Greenhouse gas (GHG) data required by Subpart G for each ammonia manufacturing process unit and for your facility. For additional information about Subpart G reporting, please use the e-GGRT Help link(s) provided.

Subpart G: View Validation

SUBPART G SUMMARY INFORMATION FOR THIS FACILITY

Annual Urea Prod. (metric tons)	Quantity of CO_2 used to produce urea (metric tons)	Annual Ammonia Prod. (metric tons)	
			OPEN

UNIT SUMMARY

Unit Name/Identifier	Feedstock	CO_2 (metric tons)	Status[1]		Delete
No units have been added					

ADD a Unit

UNIT SUMMARY (Units monitored by CEMS)

Unit Name/Identifier	Feedstock	Status[1]		Delete
afdsa	Gaseous	Incomplete	OPEN	✖

ADD a Unit Monitored by CEMS

CEMS MONITORING LOCATION (CML) SUMMARY

CML Name/Identifier	CML Configuration	Monitored Unit(s)	Total CO_2 emissions (metric tons)	Status	Delete
No CEMS monitoring locations present					

ADD a CEMS Monitoring Location

Facility Overview

[1] A status of "Incomplete" means that one or more required data elements are incomplete. For details, refer to the Data Completeness validation messages in your Validation Report by clicking the "View Validation" link above (Note: if there are no validation messages for this subpart you will not see this link).

Step 2: Define a CML and report emissions information

For each CEMS Monitoring Location, provide the following information:

- A unique unit name or identifier for the CML (see also About Unique Unit Names)
- An optional description or label for the CML
- The configuration of processes or process units that are monitored by the CML:
    - Single process or process unit that exhausts to a dedicated stack
    - Multiple processes or process units that share a common stack
    - Process or process unit that shares a common stack with one or more stationary fuel combustion units
- The types of fuel combusted in the unit(s) monitored by the CEMS
- The Tier 4/CEMS methodology start and end dates
- The total hourly CO_2 mass emissions for each quarter of the reporting year (metric tons) (*Do not cumulate emissions data between quarters*)
- The total annual CO_2 mass emissions measured by the CEMS (metric tons)*(This is the sum of the four quarterly totals)*
- An indication whether emissions reported for the CEMS include emissions calculated according to 98.33(a)(4)(viii) for a slipstream that bypassed the CEMS
- The total annual biogenic CO_2 emissions from the combustion of all biomass fuels combined (metric tons) (*if not applicable, enter '0'*)
- The total annual non-biogenic CO_2 emissions which includes fossil fuel, sorbent, and process CO_2 emissions (metric tons)
- The total annual CH_4 and N_2O emissions associated with the combustion of all Table C-2 fuels combusted in all processes/process units monitored by the CEMS derived from application of Equation C-10 (metric tons) (*if there are no combustion emissions in this CML, please enter '0'*)
- The total number of source operating hours in the reporting year
- The total operating hours in which a substitute data value was used in the emissions calculations for the CO_2 concentration parameter
- The total operating hours in which a substitute data value was used in the emissions calculations for the stack gas flow rate parameter
- If moisture correction is required and a continuous moisture monitor is used, the total operating hours in which a substitute data value was used in the emissions calculations for the stack gas moisture content parameter
- The total annual CO_2 emissions from the CEMS Monitoring Location (CML) Summary attributable to combustion (metric tons)

Do not leave any of these fields blank. If, for example, your facility has no biogenic CO_2 emissions, enter '0'.

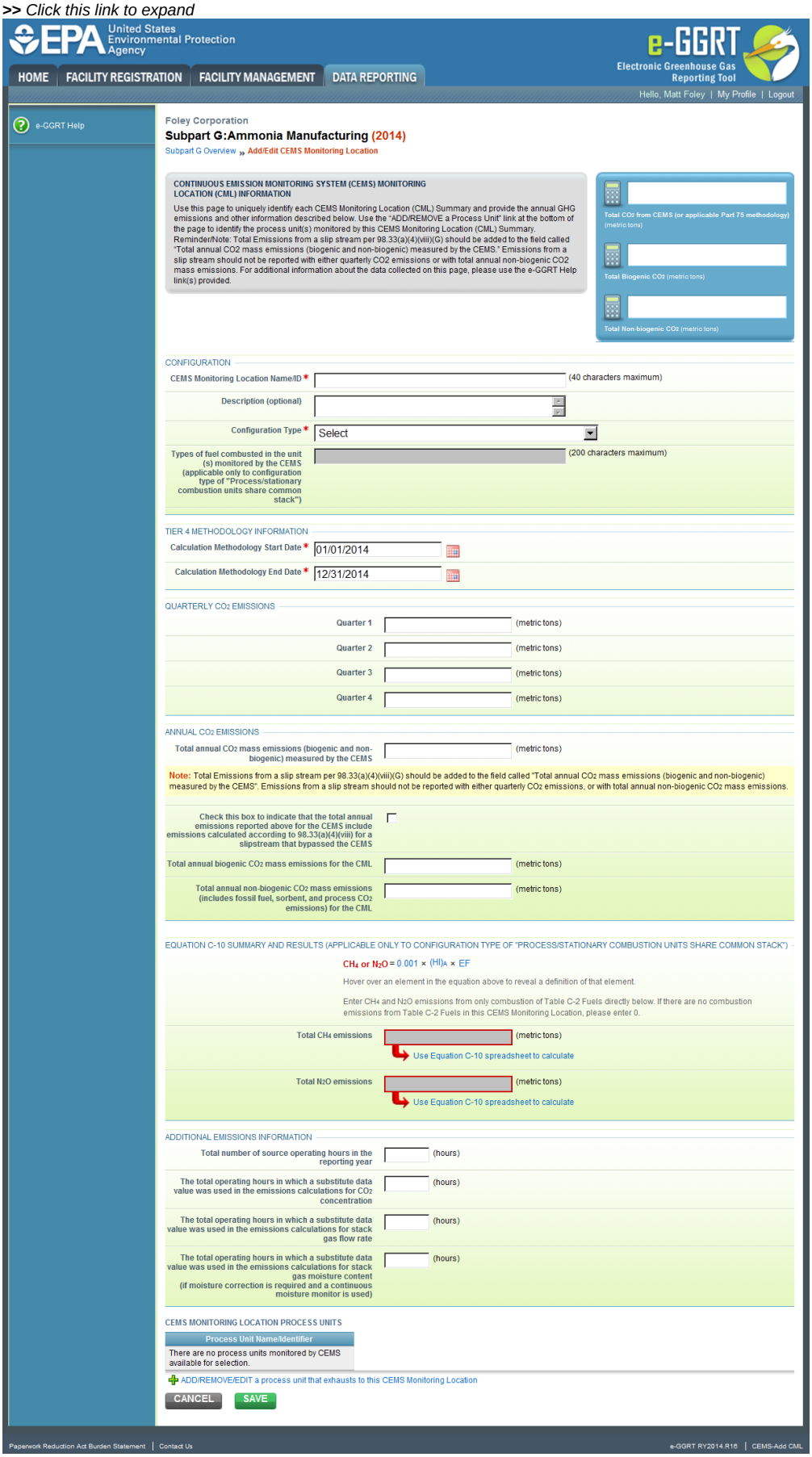
For assistance in calculating annual CH_4 and N_2O emissions using Equation C-10, access the optional calculation spreadsheet by clicking one of the links titled “Use Equation C-10 spreadsheet to calculate” located below each of the red emissions information data entry boxes and follow the provided instructions

Step 3: Identify process units monitored at a CML

To identify the process units monitored at a CML, first click the link titled “ADD/REMOVE a process unit that exhausts to this CEMS Monitoring Location” at the bottom of the page

⚠ The screenshot below is from Subpart G and is displayed as an example. The screen for other subparts may differ slightly.

>> Click this link to expand



United States Environmental Protection Agency

e-GGRT Electronic Greenhouse Gas Reporting Tool

HOME | FACILITY REGISTRATION | FACILITY MANAGEMENT | DATA REPORTING

Hello, Matt Foley | My Profile | Logout

e-GGRT Help

Foley Corporation

Subpart G:Ammonia Manufacturing (2014)

Subpart G Overview » Add/Edit CEMS Monitoring Location

CONTINUOUS EMISSION MONITORING SYSTEM (CEMS) MONITORING LOCATION (CML) INFORMATION

Use this page to uniquely identify each CEMS Monitoring Location (CML) Summary and provide the annual GHG emissions and other information described below. Use the "ADD/REMOVE a Process Unit" link at the bottom of the page to identify the process unit(s) monitored by this CEMS Monitoring Location (CML) Summary. Reminder/Note: Total Emissions from a slip stream per 98.33(a)(4)(viii)(G) should be added to the field called "Total annual CO2 mass emissions (biogenic and non-biogenic) measured by the CEMS." Emissions from a slip stream should not be reported with either quarterly CO2 emissions or with total annual non-biogenic CO2 mass emissions. For additional information about the data collected on this page, please use the e-GGRT Help link(s) provided.

Total CO_2 from CEMS (or applicable Part 75 methodology) (metric tons)

Total Biogenic CO_2 (metric tons)

Total Non-biogenic CO_2 (metric tons)

CONFIGURATION

CEMS Monitoring Location Name/ID * (40 characters maximum)

Description (optional)

Configuration Type * Select

Types of fuel combusted in the unit (s) monitored by the CEMS (applicable only to configuration type of "Process/stationary combustion units share common stack") (200 characters maximum)

TIER 4 METHODOLOGY INFORMATION

Calculation Methodology Start Date * 01/01/2014

Calculation Methodology End Date * 12/31/2014

QUARTERLY CO_2 EMISSIONS

Quarter 1 (metric tons)

Quarter 2 (metric tons)

Quarter 3 (metric tons)

Quarter 4 (metric tons)

ANNUAL CO_2 EMISSIONS

Total annual CO_2 mass emissions (biogenic and non-biogenic) measured by the CEMS (metric tons)

Note: Total Emissions from a slip stream per 98.33(a)(4)(viii)(G) should be added to the field called "Total annual CO_2 mass emissions (biogenic and non-biogenic) measured by the CEMS". Emissions from a slip stream should not be reported with either quarterly CO_2 emissions, or with total annual non-biogenic CO_2 mass emissions.

Check this box to indicate that the total annual emissions reported above for the CEMS include emissions calculated according to 98.33(a)(4)(viii) for a slipstream that bypassed the CEMS

Total annual biogenic CO_2 mass emissions for the CML (metric tons)

Total annual non-biogenic CO_2 mass emissions (includes fossil fuel, sorbent, and process CO_2 emissions) for the CML (metric tons)

EQUATION C-10 SUMMARY AND RESULTS (APPLICABLE ONLY TO CONFIGURATION TYPE OF "PROCESS/STATIONARY COMBUSTION UNITS SHARE COMMON STACK")

CH_4 or $N_2O = 0.001 \times (HI)_A \times EF$

Hover over an element in the equation above to reveal a definition of that element.

Enter CH_4 and N_2O emissions from only combustion of Table C-2 Fuels directly below. If there are no combustion emissions from Table C-2 Fuels in this CEMS Monitoring Location, please enter 0.

Total CH_4 emissions (metric tons)

Use Equation C-10 spreadsheet to calculate

Total N_2O emissions (metric tons)

Use Equation C-10 spreadsheet to calculate

ADDITIONAL EMISSIONS INFORMATION

Total number of source operating hours in the reporting year (hours)

The total operating hours in which a substitute data value was used in the emissions calculations for CO_2 concentration (hours)

The total operating hours in which a substitute data value was used in the emissions calculations for stack gas flow rate (hours)

The total operating hours in which a substitute data value was used in the emissions calculations for stack gas moisture content (if moisture correction is required and a continuous moisture monitor is used) (hours)

CEMS MONITORING LOCATION PROCESS UNITS

Process Unit Name/Identifier
There are no process units monitored by CEMS available for selection.

ADD/REMOVE/EDIT a process unit that exhausts to this CEMS Monitoring Location

CANCEL SAVE

Paperwork Reduction Act Burden Statement | Contact Us

e-GGRT RY2014 R16 | CEMS-Add CML

e-GGRT Help

Foley Corporation

Subpart G:Ammonia Manufacturing (2014)

Subpart G Overview » Add/Edit CEMS Monitoring Location

CONTINUOUS EMISSION MONITORING SYSTEM (CEMS) MONITORING LOCATION (CML) INFORMATION

Use this page to uniquely identify each CEMS Monitoring Location (CML) Summary and provide the annual GHG emissions and other information described below. Use the "ADD/REMOVE a Process Unit" link at the bottom of the page to identify the process unit(s) monitored by this CEMS Monitoring Location (CML) Summary.
Reminder/Note: Total Emissions from a slip stream per 98.33(a)(4)(viii)(G) should be added to the field called "Total annual CO2 mass emissions (biogenic and non-biogenic) measured by the CEMS." Emissions from a slip stream should not be reported with either quarterly CO2 emissions or with total annual non-biogenic CO2 mass emissions. For additional information about the data collected on this page, please use the e-GGRT Help link(s) provided.

Total CO_2 from CEMS (or applicable Part 75 methodology) (metric tons)

Total Biogenic CO_2 (metric tons)

Total Non-biogenic CO_2 (metric tons)

CONFIGURATION

CEMS Monitoring Location Name/ID * (40 characters maximum)

Description (optional)

Configuration Type * Select

Types of fuel combusted in the unit (s) monitored by the CEMS (applicable only to configuration type of "Process/stationary combustion units share common stack") (200 characters maximum)

TIER 4 METHODOLOGY INFORMATION

Calculation Methodology Start Date * 01/01/2014

Calculation Methodology End Date * 12/31/2014

QUARTERLY CO_2 EMISSIONS

Quarter 1 (metric tons)

Quarter 2 (metric tons)

Quarter 3 (metric tons)

Quarter 4 (metric tons)

ANNUAL CO_2 EMISSIONS

Total annual CO_2 mass emissions (biogenic and non-biogenic) measured by the CEMS (metric tons)

Note: Total Emissions from a slip stream per 98.33(a)(4)(viii)(G) should be added to the field called "Total annual CO_2 mass emissions (biogenic and non-biogenic) measured by the CEMS". Emissions from a slip stream should not be reported with either quarterly CO_2 emissions, or with total annual non-biogenic CO_2 mass emissions.

Check this box to indicate that the total annual emissions reported above for the CEMS include emissions calculated according to 98.33(a)(4)(viii) for a slipstream that bypassed the CEMS

Total annual biogenic CO_2 mass emissions for the CML (metric tons)

Total annual non-biogenic CO_2 mass emissions (includes fossil fuel, sorbent, and process CO_2 emissions) for the CML (metric tons)

EQUATION C-10 SUMMARY AND RESULTS (APPLICABLE ONLY TO CONFIGURATION TYPE OF "PROCESS/STATIONARY COMBUSTION UNITS SHARE COMMON STACK")

CH_4 or $N_2O = 0.001 \times (HI)_A \times EF$

Hover over an element in the equation above to reveal a definition of that element.

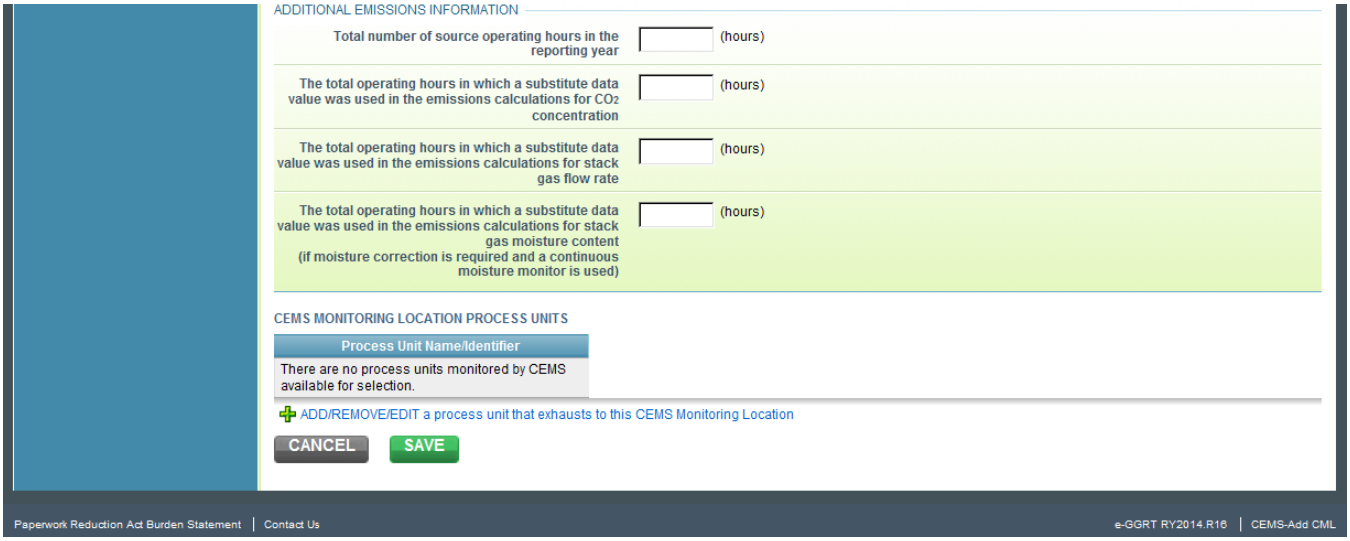
Enter CH_4 and N_2O emissions from only combustion of Table C-2 Fuels directly below. If there are no combustion emissions from Table C-2 Fuels in this CEMS Monitoring Location, please enter 0.

Total CH_4 emissions (metric tons)

Use Equation C-10 spreadsheet to calculate

Total N_2O emissions (metric tons)

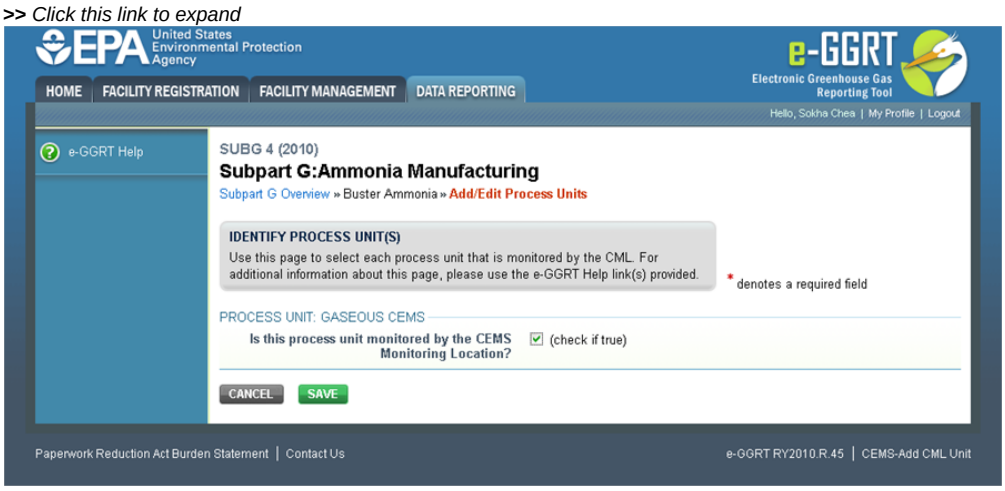
Use Equation C-10 spreadsheet to calculate

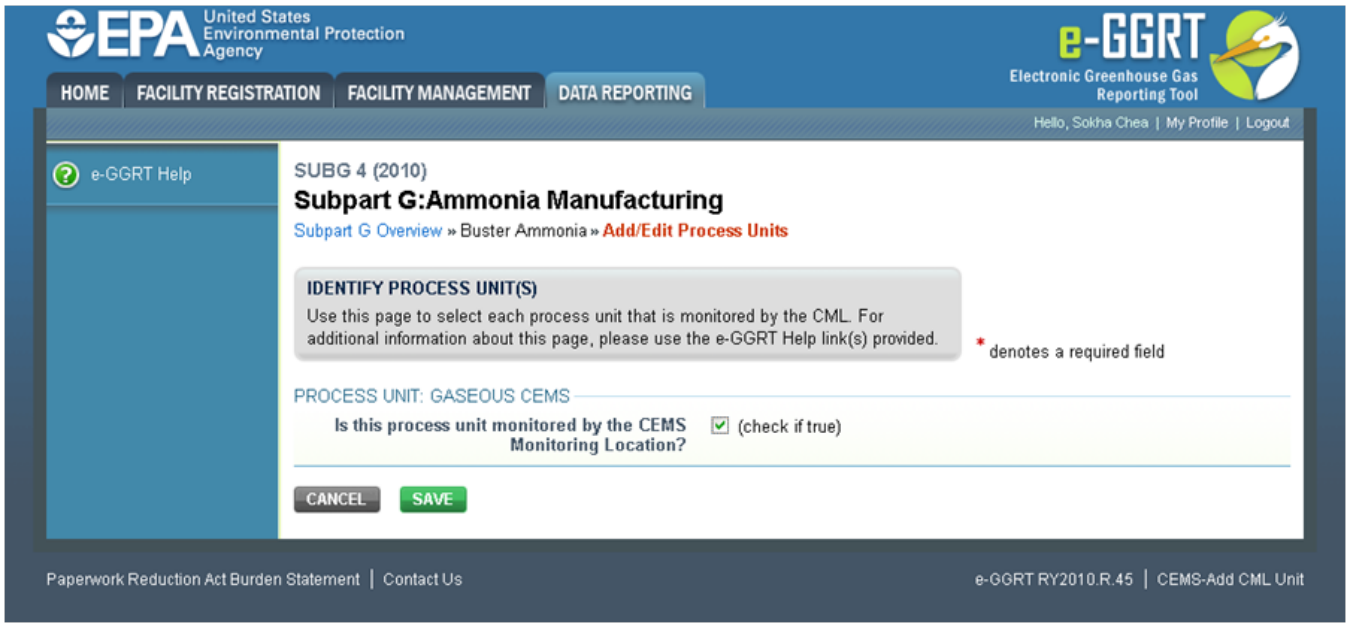


On the CML Process Units Selection page, use the check boxes to select the process unit(s) monitored at this CML. This will indicate that the unit(s) selected vent emission through the stack monitored by this CML.

The screenshot below is from Subpart G and is displayed as an example. The screen for other subparts will differ slightly depending on the number of units with emissions monitored by a single CML at your facility.

>> Click this link to expand





When finished selecting process unit for the CML and entering additional required information (if applicable), click SAVE. You should then be directed back to the Add/Edit a CML Location form and see the units you selected listed in the CEMS MONITORING LOCATION (CML) PROCESS UNITS table.

Step 4: Save entered data for a CML

When you have finished entering data for a CML, click SAVE. You will then return to the Subpart Overview page. You will see the status of data entry for the CML updated to “Complete” in the Status column in the CEMS MONITORING LOCATION (CML) SUMMARY table.

If you don't have all the data, you can enter some now, save it, and finish later by clicking on the hyperlinked name of the CML in the CEMS MONITORING LOCATION (CML) SUMMARY table.

After you save the data on this page, the next time you open the page, the calculator on the top of the page will display the CO_2 process emissions for the CML, rounded to the nearest 0.1 of a metric ton. The value displayed is for informational purposes only.

Step 5: Repeat Steps 1-4

Repeat Steps 1-4 until emissions information has been entered for all CMLs. If you have missed something, the validation report messages will help you identify any incomplete entries.

Subpart Validation Report

The Validation Report assists you with determining the completeness and quality of your reported data.

We strongly encourage you to use the Validation Report to check your work. The Validation Report performs two types of checks:

- Data Completeness: Data required for reporting that are missing or incomplete.
- Data Quality: Data that are outside of the expected range of values.

Certain validation checks which are considered to represent critical errors must be corrected before you can successfully generate and submit your Annual Report. These checks are signified with a stop sign

. If you feel that you have triggered one of these critical “stop signs” checks in error, or if there’s a reason why your report should be submitted despite the check being triggered, please submit a request to the e-GGRT Help Desk at GHGReporting@epa.gov.

You may view the Validation Report at any time.

> Note that the Validation Report is intended to assist users in entering data, **but it is not an indication that the reporter has entered all necessary information, nor is it an indication that the reporter is in compliance with part 98**. Furthermore, a negative finding on the validation report is not a guarantee that a data element was entered incorrectly. For more detail on the Validation Report and its functionality please review the Subpart Validation Report page.

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