Subpart P Emissions Information for Process Units Monitored by CEMS for All Reporting Years

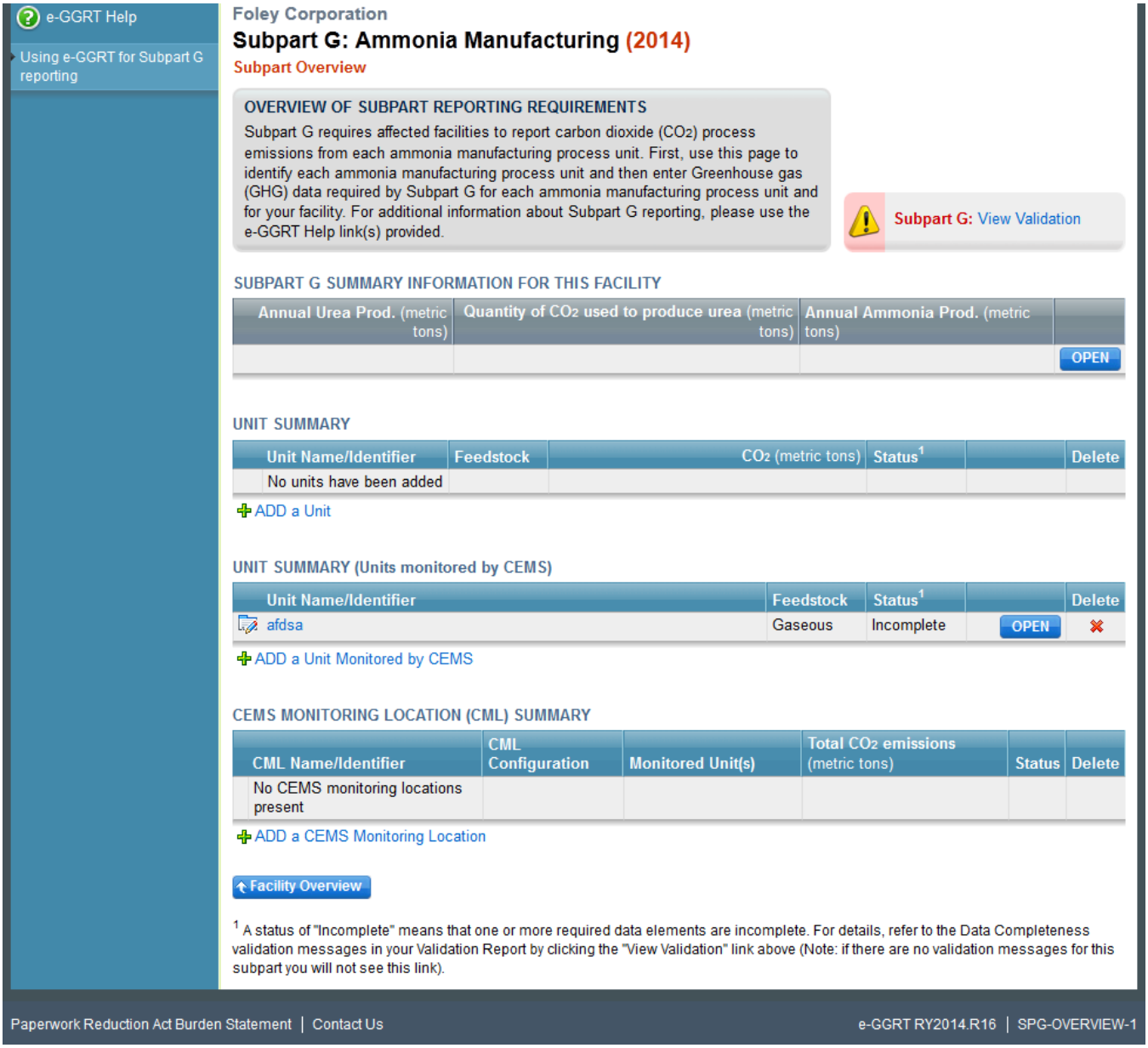
This page provides step-by-step instructions on how to enter and edit Subpart P Hydrogen Production emissions information for process units that are monitored by a CEMS.

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*



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'.

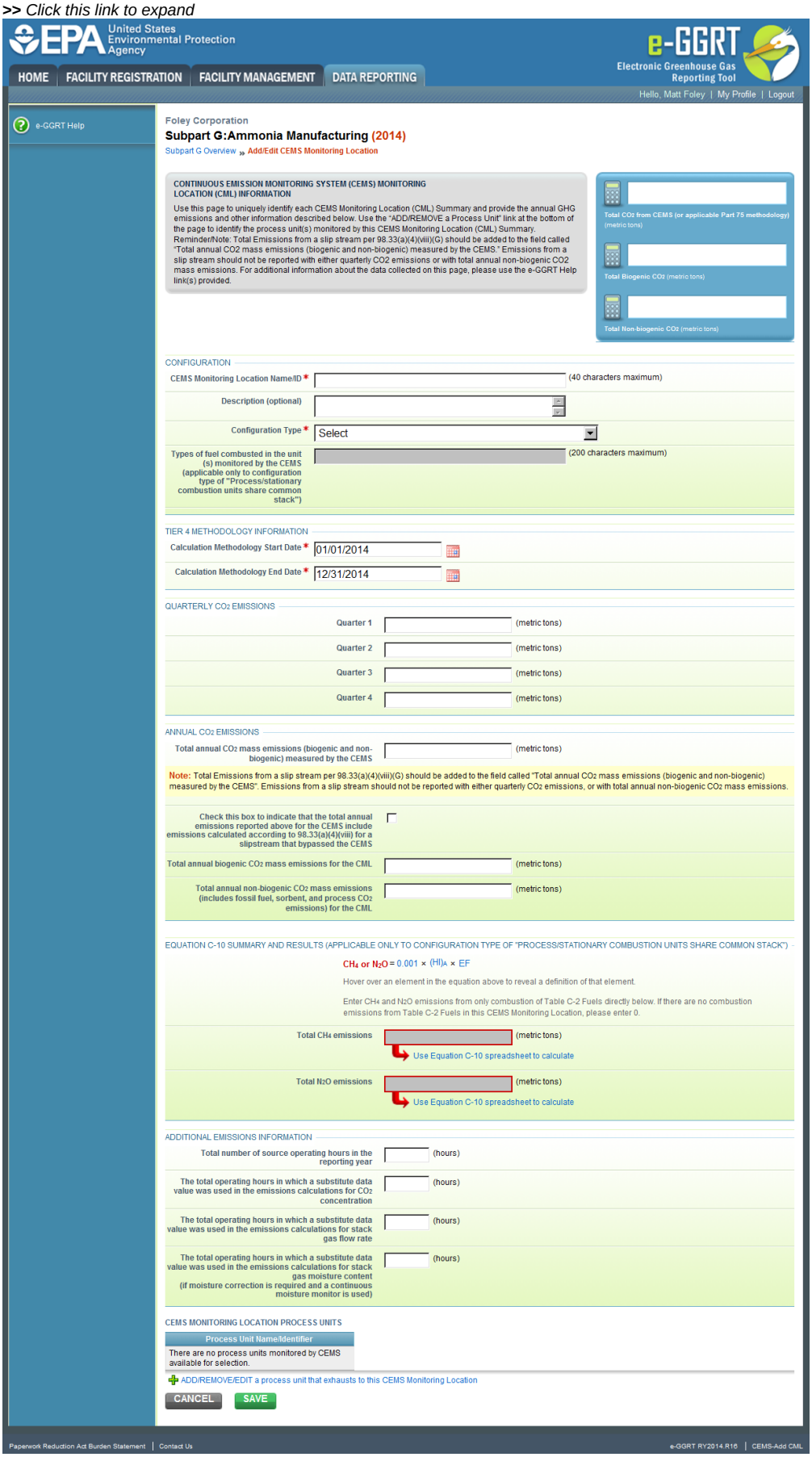
For assistance in calculating annual CH_4 and N_2O emissions using Equation C-10, access the optional calculation spreadsheet by clicking one of the links titled "Use Equation C-10 spreadsheet to calculate" located below each of the red emissions information data entry boxes and follow the provided instructions

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

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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

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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.

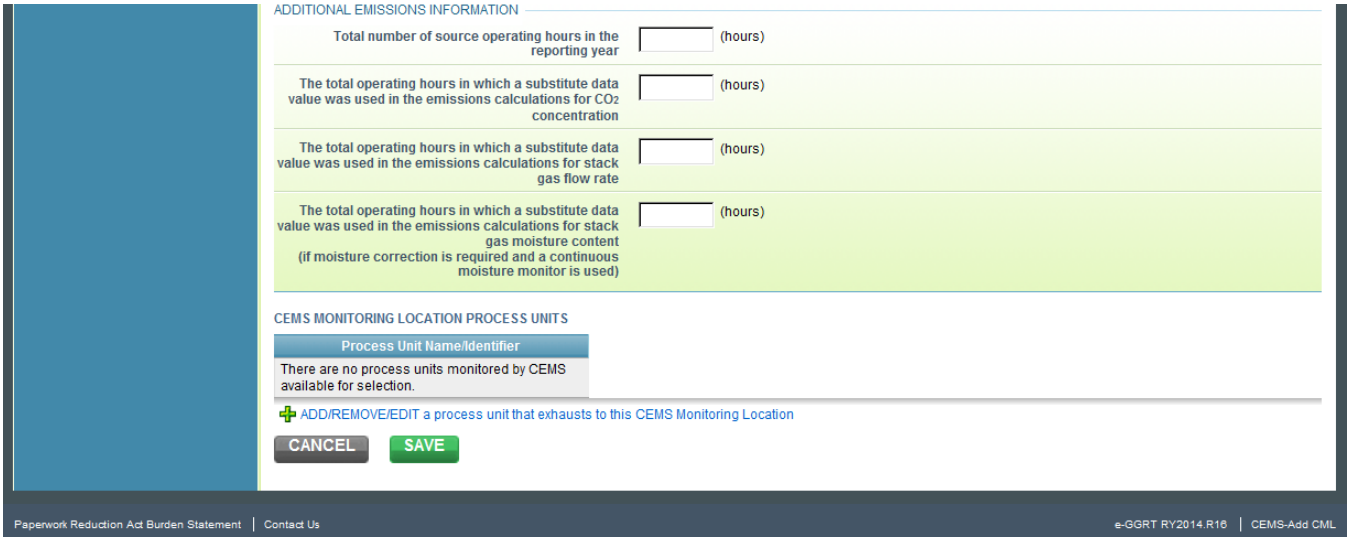
Enter CH_4 and N_2O emissions from only combustion of Table C-2 Fuels directly below. If there are no combustion emissions from Table C-2 Fuels in this CEMS Monitoring Location, please enter 0.

Total CH_4 emissions (metric tons)

Use Equation C-10 spreadsheet to calculate

Total N_2O emissions (metric tons)

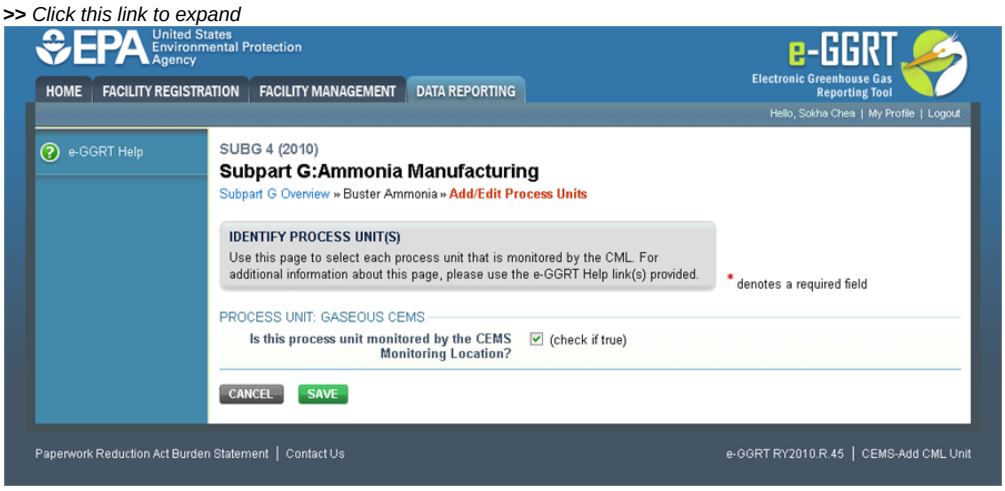
Use Equation C-10 spreadsheet to calculate

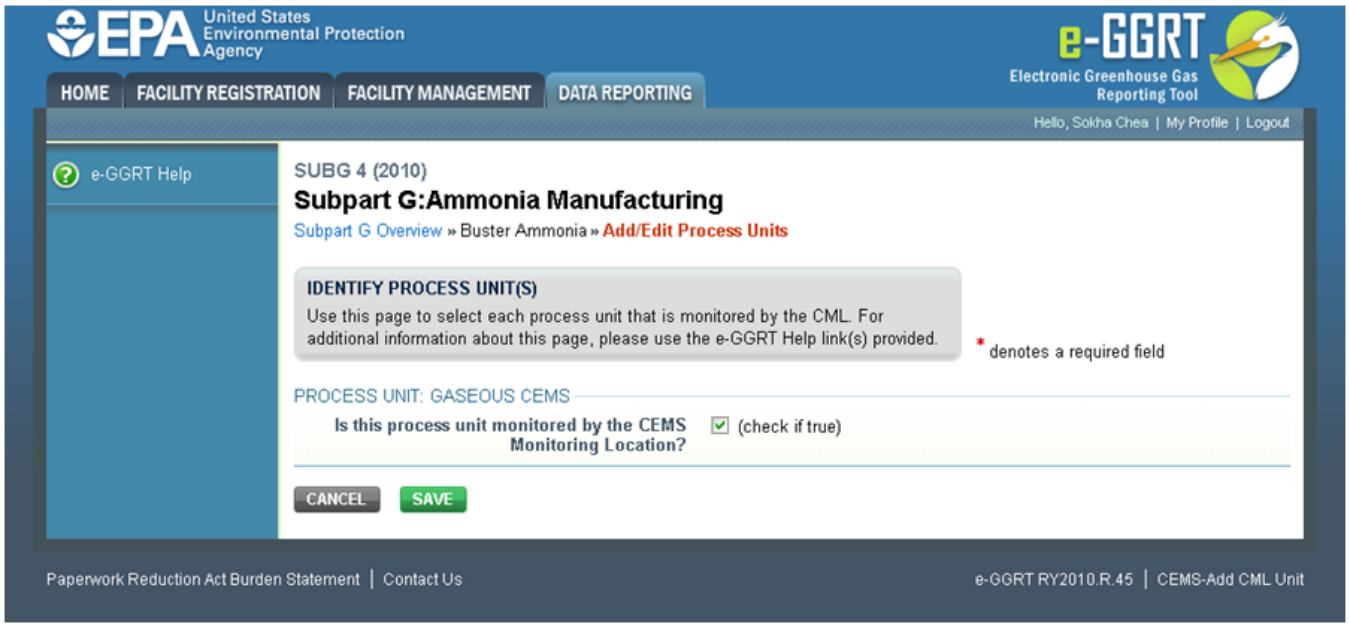


On the CML Process Units Selection page, use the check boxes to select the process unit(s) monitored at this CML. This will indicate that the unit(s) selected vent emission through the stack monitored by this CML.

> 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.

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See Also

Screen Errors
Using e-GGRT to Prepare Your Subpart P Report for RY2014 and Later
Subpart P Summary Information for this Facility for All Reporting Years
Subpart P Process Unit Information for Units NOT Monitored by CEMS for All Reporting Years
Subpart P Process Unit Information for Units Monitored by CEMS for All Reporting Years
Subpart P Emissions Information for Process Units NOT Monitored by CEMS for RY2014 and Later
Subpart P Entering Equation Inputs Using IVT
Using Subpart P Calculation Spreadsheets
Subpart P Emissions Information for Process Units Monitored by CEMS for All Reporting Years
Subpart Validation Report