



**e-GGRT Training Webinar on
Reporting GHG Data for Subpart Z**

U.S. Environmental Protection Agency
Greenhouse Gas Reporting Program (GHGRP)
February 2014

Updated 1-30-14

Hello, and welcome to the e-GGRT training webinar on using EPA's electronic Greenhouse Gas Reporting Tool to report GHG Data for Subpart Z – Phosphoric Acid Production – of the EPA's Greenhouse Gas Reporting Program.



This training is provided by EPA solely for informational purposes. It does not provide legal advice, have legally binding effect, or expressly or implicitly create, expand, or limit any legal rights, obligations, responsibilities, expectations, or benefits in regard to any person.

Basic Resources



- **General e-GGRT RY2013 Reporting Overview**
 - Thursday, February 20, 2014, 3:00-4:00 PM
 - Register at
<http://www.epa.gov/ghgreporting/reporters/training/index.html>
- e-GGRT webinars posted include:
 - User and Facility/Supplier Registration
 - Subparts C and D
 - <http://www.epa.gov/ghgreporting/reporters/training/index.html>

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This webinar focuses on introducing reporters to the e-GGRT web forms for reporting emissions under Subpart Z, which will be used from this point forward.

A general reporting overview to review overall changes for 2013 reporting will be held February 20, 2014. This webinar will include important updates and new features in e-GGRT for RY2013 including the recent Technical Corrections and Global Warming Potentials amendments, new webforms, information for XML reporters and more.

Those and other slides from previous training presentations will be posted at EPA's GHG Reporting Program web site shown on this slide.

Webinar Outline / Overview



- Subpart Z – Phosphoric Acid Production
 - Change from Excel form to web form
 - Web forms for units without CEMS
 - Review/Validation Warning Messages
 - Web forms for units with CEMS
- Review Subpart Data - GHG emissions details
- Questions

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Here is an overview of the topics we will cover.

We will review reporting for Subpart Z – Phosphoric Acid Production. Facilities subject to Subpart Z will be using 1 of 2 methods to report emissions. You will either be using (1) continuous emission monitoring systems (CEMS) or (2) the calculation methods provided in 98.263 (b) using the new web forms.

We will first review and focus on the new web forms for adding and reporting data for units NOT using continuous emission monitoring systems to monitor and report annual greenhouse gas emissions.

Next, we will review forms for reporting emissions monitored by CEMS.

Then, we will then show you how to review and check validation/warning messages for Subpart Z.

Finally we will show you how to review your reported emissions for this subpart, in addition to submitting your report.

List of Applicable Subparts



Z Phosphoric Facility
e-GGRT Greenhouse Gas Data Reporting (2013)
Select Facility • [Facility or Supplier Overview](#)

FACILITY OR SUPPLIER OVERVIEW
This page allows you to add the source and/or supplier categories for which your facility or supplier will be reporting, then to access those data reporting screens using the OPEN buttons.
After data reporting is complete, you can initiate the annual report review and submission process from this page by using the SUBMIT button (or RESUBMIT for subsequent submissions if needed).
Facility's GHG Reporting Method: Data entry via e-GGRT web-forms ([Change](#))

REPORT DATA
2013 Reporting Source or Supplier Category Validation Messages? Subpart Reporting
Subpart Z—Phosphoric Acid Production [View Messages](#) [OPEN](#)

SUBMIT ANNUAL REPORT

Report	Uploaded File Name	Status	Submitted Date	Certification Date

[VIEW REPORTS](#): Annual Report reviewable formats (including public non-CBI versions and trend reports) for all submissions this reporting year can be accessed on the View Reports page.
If you have any questions, please contact the hotline at GHGReporting@epa.gov.

NOTIFICATION TO DISCONTINUE REPORTING FOR 2013
If you will discontinue complying Cessation of operations. All applicable GHG-emitting processes and operations ceased

We will start on the Facility Overview page for Subpart Z. Please note that if a reporter needs help creating a facility or adding a subpart, they should refer to the general e-GGRT training materials referenced earlier or contact the help desk at GHGReporting@epa.gov.

To begin reporting data, let's open the reporting module for Subpart Z by clicking the BLUE "OPEN" button to the right of Subpart Z, as shown by the arrow.

Reporting Instructions (1)



EPA United States Environmental Protection Agency

e-GGRT Electronic Greenhouse Gas Reporting Tool

HOME FACILITY REGISTRATION FACILITY MANAGEMENT DATA REPORTING EPA REPORTS

Help, Jason Goldsmith | My Profile | Logout

e-GGRT Help

Z Phosphoric Facility

Subpart Z: Phosphoric Acid Production (2013)

[Subpart Overview](#)

OVERVIEW OF SUBPART REPORTING REQUIREMENTS

Subpart Z requires affected facilities to report carbon dioxide (CO₂) process emissions from each wet process phosphoric acid process line. First, use this page to identify each wet process phosphoric acid process line and then enter Greenhouse gas (GHG) data required by Subpart Z for each wet process phosphoric acid process line and for your facility. For additional information about Subpart Z reporting, please use the e-GGRT Help link(s) provided.

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 FR 53057 (published August 25, 2011), in accordance with the rule, e-GGRT is not currently collecting the subset of inputs to emission equations.

Subpart Z: View Validation

FACILITY REPORTING INFO

Total Non-CEMS Process Lines	Phosphoric acid production Capacity (tons)	Status ¹
0		Incomplete OPEN

WET PROCESS PHOSPHORIC ACID LINES (Lines not monitored by CEMS)

Unique Name/Identifier	Origins of Phosphate Rock	CO ₂ emissions (metric tons)	Status ¹	Delete
No Units have been added				

[ADD a Unit](#)

WET PROCESS PHOSPHORIC ACID LINES (Lines monitored by CEMS)

Unique Name/Identifier	Origins of Phosphate Rock	Status ¹	Delete
No units have been added			

[ADD a Unit Monitored by CEMS](#)

[Facility Overview](#)

¹A 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).

The next screen is the Subpart Overview page. On the top section, you will see a question mark in the left hand corner of the screen, as shown by the orange circle. By clicking on the links in this area, you can get additional help and reporting instructions.

Reporting Instructions (2)



United States Environmental Protection Agency

e-GGRT
Electronic Greenhouse Gas Reporting Tool

/ Pages / Home / GHG Reporting Instructions / ... / Subpart Reporting Instructions

Search

Subpart Z - Phosphoric Acid Production

Please select a help topic from the list below:

- Using e-GGRT to Prepare Your Subpart Z Report
 - Subpart Z Facility-Level Information
 - Subpart Z Process Unit Information for Units Monitored by CEMS
 - Subpart Z Emissions Information for Process Units NOT Monitored by CEMS
 - Subpart Z Process Unit Information for Units NOT Monitored by CEMS
 - Subpart Z Emissions Information for Process Units Monitored by CEMS
- Subpart Z Rule Guidance
- Subpart Z Rule Language (eCFR)

Additional Resources:

- Part 96 Terms and Definitions
- Frequently Asked Questions (FAQs)
- Webinar Slides

<http://ccdsupport.com/confluence/display/help/Subpart+Z++Phosphoric+Acid+Production>

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This slide shows the content of the Reporting Instructions help available for the for Subpart Z. You can choose one of the following main topics:

[Using e-GGRT to Prepare Your Subpart Z Report](#)

[Subpart Z Facility-Level Information](#)

[Subpart Z Process Unit Information for Units Monitored by CEMS](#)

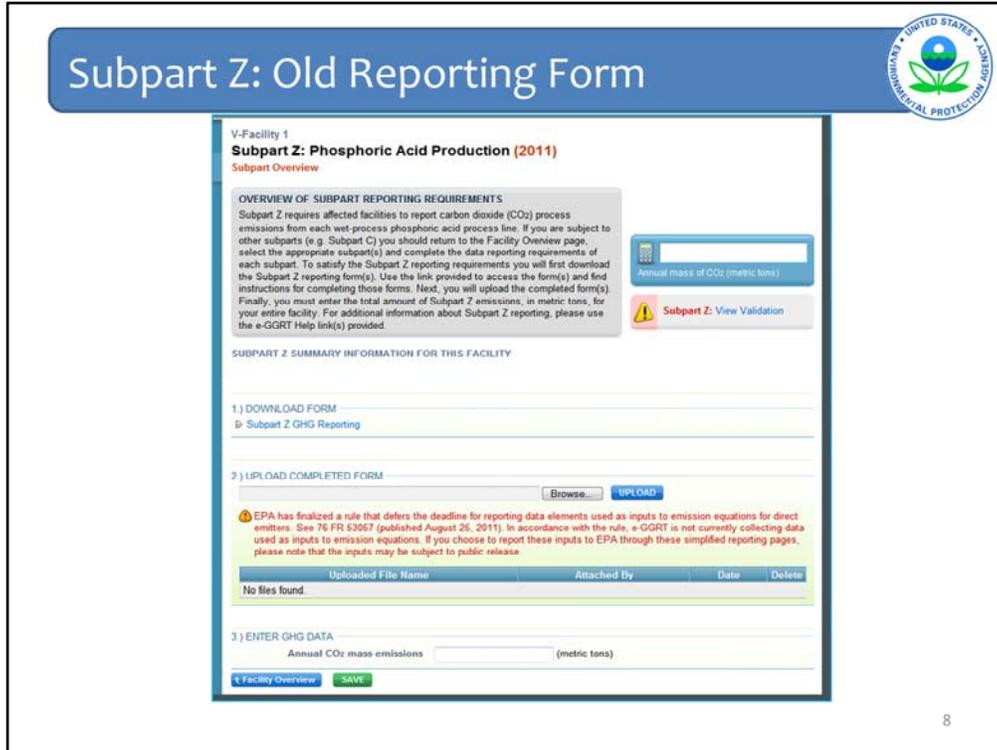
[Subpart Z Emissions Information for Process Units NOT Monitored by CEMS](#)

[Subpart Z Process Unit Information for Units NOT Monitored by CEMS](#)

[Subpart Z Emissions Information for Process Units Monitored by CEMS](#)

[Subpart Z Rule Guidance](#)

[Subpart Z Rule Language \(eCFR\)](#)



Note that all of the information for Subpart Z is now entered within e-GGRT and there is no Excel form to upload.

Here we see what the old Subpart Z reporting form looked like.

In prior years, reporters were required to complete an Excel form for Subpart Z and upload the file. These forms are now no longer accepted by the e-GGRT system. All required data is now entered through a web form, which consists of a series of web pages with data entry fields, as discussed through the remainder of this presentation.

Please note that the Excel forms will not be accepted for any prior year resubmissions. Should you need to make corrections to Subpart Z data for prior years (RY2010, RY2011, RY2012), you will be required to enter the data into the web form for the applicable year.

Subpart Z: Old Excel Reporting Form



Subpart Z - Phosphoric Acid Production
Wet-Acid Phosphoric Acid Process Line
 COMPLETE REQUIRED INFORMATION AND UPLOAD SPREADSHEET TO E-GGRT

Version: R.02
 Today's date: 1/20/2014

Instructions: Use a separate tab for each wet-process phosphoric acid process line at your facility. Five tabs are provided in this workbook to accommodate up to five process lines. If additional space is needed, please complete and submit additional copies of this workbook. Users may indicate that a CEMS is used to calculate CO2 emissions or choose between either Equation Z-1a or Equation Z-1b estimation methodology in Part 2a on each tab. Please note that if multiple origins of phosphate rock are used by a process line – you will need to complete Part 2b for each origin. NOTE: where "permitted production capacity" is requested in Part 2a below, users should report "annual production capacity".

Part 1 - Facility Information

Facility Name	
GHGRP ID	
Reporting Period	
Total number of wet-process phosphoric acid process lines (§§ 266.6(e)(1), (b)(1), and (b)(7))	
Facility total annual phosphoric acid permitted production capacity (tons) (§ 266.6(i))	0

This value represents the sum of production capacity for all process lines and all origins of phosphate rock.

Part 2a - Wet-Process Phosphoric Acid Line Information

Wet-Process Phosphoric Acid Process Line Name/ID (§ 266.6(e))	
Description of Process Line (optional) (§ 266.6(f)(1))	
Is CEMS used to measure CO2 emissions for this process line?	
Calculation Method (§ 266.6(f)(5) or § 266.6(f)(6))	
CO2 process emissions for the process line (metric tons) (§ 266.6(g))	
CO2 process emissions for the process line (rounded metric tons)	0.0
Annual phosphoric acid permitted production capacity (tons) (§ 266.6(i))	

Part 2b - Wet-Process Phosphoric Acid Line Information, by Origin of Phosphate Rock (1 of 5)
 Instructions: For each origin of phosphate rock consumed in the process line, select the phosphate rock origin and provide the following data for each month. Leave blank any additional sections for origins not used.

Origin of Phosphate Rock	
Annual amount of phosphoric acid produced (tons) (§ 266.6(h))	
Annual arithmetic average (derived from monthly)	

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All of the data that was entered into this Excel reporting form can now be entered into a web form within e-GGRT. We will go through this process in this presentation.

Please note that this change will not impact what data you need to report. The data required for reporting in Subpart Z can be found in 40 CFR 98.266.

Let's continue with going over the new web form for Subpart Z.

Subpart Z: Web Form Subpart Overview



Z Phosphoric Facility
Subpart Z: Phosphoric Acid Production (2013)
Subpart Overview

OVERVIEW OF SUBPART REPORTING REQUIREMENTS
Subpart Z requires affected facilities to report carbon dioxide (CO₂) process emissions from each wet process phosphoric acid process line. First, use this page to identify each wet-process phosphoric acid process line and then enter Greenhouse gas (GHG) data required by Subpart Z for each wet-process phosphoric acid process line and for your facility. For additional information about Subpart Z reporting, please use the e-GGRT Help link(s) provided.

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 53067 (published August 25, 2011). In accordance with the rule, e-GGRT is not currently collecting the subset of inputs to emission equations.

Subpart Z: View Validation

FACILITY REPORTING INFO

Total Non-CEMS Process Lines	Phosphoric acid production Capacity (tons)	Status ¹
0		Incomplete

WET-PROCESS PHOSPHORIC ACID LINES (Lines not monitored by CEMS)

Unique Name/Identifier	Origins of Phosphate Rock	CO ₂ emissions (metric tons)	Status ¹	Delete
No Units have been added				

WET-PROCESS PHOSPHORIC ACID LINES (Lines monitored by CEMS)

Unique Name/Identifier	Origins of Phosphate Rock	Status ¹	Delete
No units have been added			

¹A 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).

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Note that you can check the location within the system using the heading in red font at the top of the page as indicated by the circle at the top of the page. The Subpart Z overview page, like the facility overview page, is the “home page” for Subpart Z reporting. As you go to specific data entry forms within this module the text at the top of the page will change.

On the subpart overview page, there are 3 main sections where you will need to enter Subpart Z specific data.

The first section is “FACILITY REPORTING INFO”. This table will include facility-wide information including the total number of process lines not using CEMS and the facility-level phosphoric acid production capacity.

The second section is the “WET-PROCESS PHOSPHORIC ACID LINES (Lines not monitored by CEMS)” table. Here you will enter information required for each phosphoric acid line that is not monitored by CEMS, such as the unit identification (including origins of phosphate rock), and CO₂ emissions for each unit. This will be the second step as noted on the screen.

The last section, “WET-PROCESS PHOSPHORIC ACID LINES (Lines monitored by CEMS)”, is where you will enter emissions data for phosphoric acid lines that are monitored by CEMS.

Subpart Z: Subpart Overview



Z Phosphoric Facility
Subpart Z: Phosphoric Acid Production (2013)
Subpart Overview

OVERVIEW OF SUBPART REPORTING REQUIREMENTS
Subpart Z requires affected facilities to report carbon dioxide (CO₂) process emissions from each wet process phosphoric acid process line. First, use this page to identify each wet-process phosphoric acid process line and then enter Greenhouse gas (GHG) data required by Subpart Z for each wet-process phosphoric acid process line and for your facility. For additional information about Subpart Z reporting, please use the e-GGRT Help link(s) provided.

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 53067 (published August 25, 2011). In accordance with the rule, e-GGRT is not currently collecting the subset of inputs to emission equations.

[Subpart Z: View Validation](#)

FACILITY REPORTING INFO

Total Non-CEMS Process Lines	Phosphoric acid production Capacity (tons)	Status ¹
0		Incomplete

[OPEN](#)

WET-PROCESS PHOSPHORIC ACID LINES (Lines not monitored by CEMS)

Unique Name/Identifier	Origins of Phosphate Rock	CO ₂ emissions (metric tons)	Status ¹	Delete
No Units have been added				

[ADD a Unit](#)

WET-PROCESS PHOSPHORIC ACID LINES (Lines monitored by CEMS)

Unique Name/Identifier	Origins of Phosphate Rock	Status ¹	Delete
No units have been added			

[ADD a Unit Monitored by CEMS](#)

[Facility Overview](#)

¹A 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).



Staying on the Subpart Z Overview page, let's start by entering facility-level information. Click on the blue OPEN button.

Subpart Z: Facility-Level Information



Z Phosphoric Facility

Subpart Z: Phosphoric Acid Production (2013)

[Subpart Overview](#) » [Facility Information](#)

SUBPART Z FACILITY-LEVEL INFORMATION

Subpart Z requires facilities to report their total facility-level annual production capacity and the total number of wet-process phosphoric acid process lines not monitored by CEMS at the facility. The number of wet-process phosphoric acid process lines not monitored by CEMS will be automatically updated as additional units are entered into your Subpart Z report within e-GGRT. For additional information about Subpart Z reporting, please use the e-GGRT Help link(s) provided.

Total number of wet-process phosphoric acid process lines not monitored by CEMS 0

Facility total annual phosphoric acid production capacity (tons) ←

CANCEL SAVE

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On this page, you will enter facility-level information for Subpart Z.

Note that you cannot enter a value for the total number of phosphoric acid process lines not monitored by CEMS, circled above. This value will be automatically updated as you add units to Subpart Z. Adding units will be described beginning on the next slide.

On this screen you will enter the annual phosphoric acid production capacity for the facility. Note that in previous years, this was identified as the “permitted production capacity” for the facility, but was changed in the final rule of technical corrections published in November 2013 (<http://www.epa.gov/ghgreporting/reporters/notices/corrections.html>).

Please enter the value that reflects the production capacity for your facility in RY2013.

Click SAVE to return back to the Subpart Overview screen to continue with your Subpart Z web form.

Subpart Z: Add Non-CEMS Units



Z Phosphoric Facility
Subpart Z: Phosphoric Acid Production (2013)
Subpart Overview

OVERVIEW OF SUBPART REPORTING REQUIREMENTS
Subpart Z requires affected facilities to report carbon dioxide (CO₂) process emissions from each wet-process phosphoric acid process line. First, use this page to identify each wet-process phosphoric acid process line and then enter Greenhouse gas (GHG) data required by Subpart Z for each wet-process phosphoric acid process line and for your facility. For additional information about Subpart Z reporting, please use the e-GGRT Help link(s) provided.

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 83087 (published August 26, 2011) in accordance with the rule, e-GGRT is not currently collecting this subset of inputs to emission equations.

[Subpart Z: View Validation](#)

FACILITY REPORTING INFO

Total Non-CEMS Process Lines	Phosphoric acid production Capacity (tons)	Status ¹	
0		Incomplete	OPEN

WET-PROCESS PHOSPHORIC ACID LINES (Lines not monitored by CEMS)

Unique Name/Identifier	Origins of Phosphate Rock	CO ₂ emissions (metric tons)	Status ¹	Delete
No Units have been added				
ADD a Unit				

WET PROCESS PHOSPHORIC ACID LINES (Lines monitored by CEMS)

Unique Name/Identifier	Origins of Phosphate Rock	Status ¹	Delete
No units have been added			
ADD a Unit Monitored by CEMS			

[Facility Overview](#)

¹A 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).



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The next section covers the reporting of unit level information. Note we are back on the Subpart Z Overview page.

Let's first focus on entering information for units NOT using continuous emission monitoring systems (CEMS). The emissions for these units should be calculated using the procedures provided in Subpart Z of Part 98.

To enter information required for each phosphoric acid process line, let's begin by clicking on the blue hyperlink "Add a Unit" as shown by the arrow on the screen.

Subpart Z: Add Non-CEMS Unit (2)



Z Phosphoric Facility
Subpart Z: Phosphoric Acid Production (2013)
Subpart Overview » Add/Edit a Unit » CEMS

SUBPART Z UNITS
Please indicate/confirm whether or not the emissions for this Wet Phosphoric Acid manufacturing unit are measured by a CEMS. For additional information about reporting CEMS emissions, please use the e-GGRT Help link(s) provided. * denotes a required field

CONTINUOUS EMISSIONS MONITORING

Is this unit's emissions monitored using a CEMS? Yes No

After selecting “Add a Unit” you will be directed to the “Add/Edit a Unit” form where you should confirm that the monitoring method for this Phosphoric Acid Line is not CEMS. This form radio button should default to the answer “no.”

Please confirm this choice. To accept your selection and continue to the next form, hit the green “SAVE” button at the bottom of the form.

Subpart Z: Add/Edit Unit Information (1)

Z Phosphoric Facility
Subpart Z: Phosphoric Acid Production (2013)
 Subpart Overview • [Add/Edit a Unit](#)

SUBPART Z PHOSPHORIC ACID PRODUCTION UNIT
 Subpart Z requires a facility to uniquely identify each wet-process phosphoric acid process line and provide the information described below for each. For additional information about adding and editing wet-process phosphoric acid process line, please use the e-GGRT Help link(s) provided. * denotes a required field

PROCESS LINE INFORMATION

1 Unique Name/Identifier* (40 characters maximum)

Description of Process Line

Unit Type: Wet-process Phosphoric Acid Process Line

2 Calculation Method* Z-1a
 Z-1b

Annual Phosphoric acid production capacity (tons)

ORIGINS OF PHOSPHATE ROCK

Origin	Phosphoric Acid Produced(tons)	Annual arithmetic average % inorganic carbon OR % CO ₂ (percent by weight)	Rock Consumed (tons)	Delete
No Phosphate Rock Origins have been added				
Add an Origin				

CONTINUOUS EMISSIONS MONITORING

Is this unit's emissions monitored using a CEMS? Yes No
 Note: Changing the answer to this question will result in losing any data, associated with this Unit for the current reporting year, as the reporting requirements will change.

You will then be directed to the second part of the “Add/Edit a unit” form.

This page has 3 main sections where you will need to enter data.

In the first section – enter the unit name or identification number. You can also enter a description if needed to help identify the unit.

In the second section, enter the calculation methodology and the production capacity of the phosphoric acid process line.

In the third section, origin of phosphate rock information for the process line is entered.

Finally, confirm again that the phosphoric acid process line is not monitored by CEMS. You can change this unit to a CEMS unit under the heading “Continuous Emissions Monitoring”. Keep in mind that if you do decide to switch at this point, then you will lose any previously entered data for this unit once you hit the green “SAVE” button.

Once you have entered all the relevant information and confirmed the emissions methodology – hit the save button to continue.

Subpart Z: Add/Edit Unit Information (2)



Z Phosphoric Facility
Subpart Z: Phosphoric Acid Production (2013)
Subpart Overview

OVERVIEW OF SUBPART REPORTING REQUIREMENTS
Subpart Z requires affected facilities to report carbon dioxide (CO₂) process emissions from each wet-process phosphoric acid process line. First, use this page to identify each wet-process phosphoric acid process line and then enter Greenhouse gas (GHG) data required by Subpart Z for each wet-process phosphoric acid process line and for your facility. For additional information about Subpart Z reporting, please use the e-GORT Help link(s) provided.

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 78 FR 53027 (published August 25, 2011). In accordance with the rule, e-GORT is not currently collecting this subset of inputs to emission equations.

Subpart Z: [View Validation](#)

FACILITY REPORTING INFO

Total Non-CEMS Process Lines ¹	Phosphoric acid production Capacity (tons)	Status ¹
1		Incomplete OPEN

WET-PROCESS PHOSPHORIC ACID LINES (Lines not monitored by CEMS)

Unique Name/Identifier	Origins of Phosphate Rock	CO ₂ emissions (metric tons)	Status ¹	Delete
Unit 1			Incomplete	OPEN ✖

[Add a Unit](#)

WET-PROCESS PHOSPHORIC ACID LINES (Lines monitored by CEMS)

Unique Name/Identifier	Origins of Phosphate Rock	Status ¹	Delete
No units have been added			

[ADD a Unit Monitored by CEMS](#)

[Facility Overview](#)

¹A 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).

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After clicking "SAVE", you are brought back to the Subpart Overview Page. You will notice that your new Unit has been added, and that the "Total Non-CEMS Process Lines" has been updated to include this unit in the facility count. However, we note that the Status for this Unit is Incomplete. The following still information needs to be completed for this unit:

- Rock origin information needs to be added.
- CO₂ emissions for the unit need to be provided.

The rock origin information was on the previous page, but we neglected to enter it. To enter the rock origin information, click on the unit name to return to the "Add/Edit Unit Information" page.

Subpart Z: Add Rock Origin Information (1)



Z Phosphoric Facility
Subpart Z: Phosphoric Acid Production (2013)
Subpart Overview - [Add/Edit a Unit](#)

SUBPART Z PHOSPHORIC ACID PRODUCTION UNIT
Subpart Z requires a facility to uniquely identify each wet-process phosphoric acid process line and provide the information described below for each. For additional information about adding and editing wet-process phosphoric acid process line, please use the e-GORT Help link(s) provided. * denotes a required field

PROCESS LINE INFORMATION

Unique Name/Identifier* (40 characters maximum)

Description of Process Line

Unit Type

Calculation Method* Z-1a
 Z-1b

Annual Phosphoric acid production capacity (tons)

ORIGINS OF PHOSPHATE ROCK

Origin	Phosphoric Acid Produced(tons)	Annual arithmetic average % inorganic carbon OR % CO ₂ (percent by weight)	Rock Consumed (tons)	Delete
No Phosphate Rock Origins have been added				
Add an Origin				

CONTINUOUS EMISSIONS MONITORING

Is this unit's emissions* monitored using a CEMS? Yes No
Note: Changing the answer to this question will result in losing any data, associated with this Unit for the current reporting year, as the reporting requirements will change.



To enter the phosphate rock origin information, click on the “Add an Origin” text.

Subpart Z: Add Rock Origin Information (2)



Z Phosphoric Facility
Subpart Z: Phosphoric Acid Production (2013)
Subpart Overview » Add/Edit a Unit » **Phosphate Rock Origin**

GHG DATA AND ASSOCIATED INFORMATION
Subpart Z requires a facility to report each rock origin in use at a wet-process phosphoric acid process line and provide the information described below for each rock origin. For additional information about adding and editing wet-process phosphoric acid process line, please use the e-GGRT Help link(s) provided. * denotes a required field

ORIGIN OF ROCK INFORMATION

Origin of Phosphate Rock*

Annual amount of phosphoric acid produced (tons)

Annual arithmetic average percent inorganic carbon OR the annual arithmetic average percent carbon dioxide (derived from monthly sampling records) (percent by weight, expressed as a decimal fraction)

Annual amount of rock consumed (tons)

Month	Is the inorganic carbon content value a substitute data value?	Method used to estimate any missing values of inorganic carbon content	Is the mass consumed value a substitute data value?
January	<input type="text" value="Select"/>	<input type="text" value="Select"/>	<input type="text" value="Select"/>
February	<input type="text" value="Select"/>	<input type="text" value="Select"/>	<input type="text" value="Select"/>
March	<input type="text" value="Select"/>	<input type="text" value="Select"/>	<input type="text" value="Select"/>
April	<input type="text" value="Select"/>	<input type="text" value="Select"/>	<input type="text" value="Select"/>
May	<input type="text" value="Select"/>	<input type="text" value="Select"/>	<input type="text" value="Select"/>
June	<input type="text" value="Select"/>	<input type="text" value="Select"/>	<input type="text" value="Select"/>
July	<input type="text" value="Select"/>	<input type="text" value="Select"/>	<input type="text" value="Select"/>
August	<input type="text" value="Select"/>	<input type="text" value="Select"/>	<input type="text" value="Select"/>
September	<input type="text" value="Select"/>	<input type="text" value="Select"/>	<input type="text" value="Select"/>
October	<input type="text" value="Select"/>	<input type="text" value="Select"/>	<input type="text" value="Select"/>

- 1
- 2
- 3
- 4
- 5

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On the “Phosphate Rock Origin” page, you are asked for several pieces of information for each rock:

- 1) The origin of phosphate rock
- 2) The amount of phosphoric acid produced from this rock origin
- 3) The annual arithmetic average percent inorganic carbon OR the annual arithmetic average percent carbon dioxide (derived from monthly sampling records) (expressed as decimal fraction, i.e. 2% is 0.02)
- 4) The annual amount of rock consumed
- 5) Substitute and Missing data information

Additional information on filling out substitute and missing data information is provided in the next slide.

Subpart Z: Add Rock Origin Information (3)



ORIGIN OF ROCK INFORMATION

Origin of Phosphate Rock *

Annual amount of phosphoric acid produced

Annual arithmetic average percent inorganic carbon OR the annual arithmetic average percent carbon dioxide (derived from monthly sampling records)

Annual amount of rock consumed

Month	Is the inorganic carbon content value a substitute data value?	Method used to estimate any missing values of inorganic carbon content	Is the mass consumed value a substitute data value?
January	<input type="text" value="No"/>	<input type="text" value="Select"/>	<input type="text" value="No"/>
February	<input type="text" value="No"/>	<input type="text" value="Select"/>	<input type="text" value="No"/>
March	<input type="text" value="Yes"/>	<input type="text" value="Default Factor from Table 2-1"/>	<input type="text" value="No"/>
April	<input type="text" value="No"/>	<input type="text" value="Select"/>	<input type="text" value="No"/>
May	<input type="text" value="No"/>	<input type="text" value="Select"/>	<input type="text" value="No"/>
June	<input type="text" value="No"/>	<input type="text" value="Select"/>	<input type="text" value="Yes"/>
July	<input type="text" value="No"/>	<input type="text" value="Select"/>	<input type="text" value="Yes"/>
August	<input type="text" value="No"/>	<input type="text" value="Select"/>	<input type="text" value="No"/>
September	<input type="text" value="No"/>	<input type="text" value="Select"/>	<input type="text" value="No"/>
October	<input type="text" value="No"/>	<input type="text" value="Select"/>	<input type="text" value="No"/>
November	<input type="text" value="No"/>	<input type="text" value="Select"/>	<input type="text" value="No"/>
December	<input type="text" value="No"/>	<input type="text" value="Select"/>	<input type="text" value="No"/>

19

In filling out substitute and missing data information, you must select “Yes” or “No” for each month. If you select “Yes” for the column “Is the inorganic carbon content value a substitute data value?” then you must also select a method from the drop down menu for the “Method used to estimate any missing values of inorganic carbon content” for the corresponding month.

Note that you have the option to fill out the first row and then select “Make all months same” at the bottom of the table. Please refer to 40 CFR 98.265 for more information on the procedures for estimating missing data.

When all required information is entered, hit the green SAVE button to return to the previous screen to review and complete the Unit-level information.

Subpart Z: Reviewing Unit-Level Information



Z Phosphoric Facility
Subpart Z: Phosphoric Acid Production (2013)
[Subpart Overview](#) • [Add/Edit a Unit](#)

SUBPART Z PHOSPHORIC ACID PRODUCTION UNIT
Subpart Z requires a facility to uniquely identify each wet-process phosphoric acid process line and provide the information described below for each. For additional information about adding and editing wet-process phosphoric acid process line, please use the e-GGRT Help link(s) provided. * denotes a required field

PROCESS LINE INFORMATION

Unique Name/Identifier* (40 characters maximum)

Description of Process Line

Unit Type

Calculation Method* Z-1a
 Z-1b

Annual Phosphoric acid production capacity (tons)

ORIGINS OF PHOSPHATE ROCK

Origin	Phosphoric Acid Produced(tons)	Annual arithmetic average % inorganic carbon OR % CO ₂ (percent by weight)	Rock Consumed (tons)	Delete
Central Florida	300000	0.0333	1000000	

[Add an Origin](#)

CONTINUOUS EMISSIONS MONITORING

Is this unit's emissions* monitored using a CEMS? Yes No Note: Changing the answer to this question will result in losing any data, associated with this Unit for the current reporting year, as the reporting requirements will change.

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On this screen you can review your unit information and add in additional rock origins as explained in the prior steps. After all rock origins have been added, you should return to the Subpart Overview page by clicking on the green SAVE button.

In the next step, we will enter the CO₂ emissions information for this unit.

Subpart Z: Entering Unit-Level Emissions (1)



Z Phosphoric Facility

Subpart Z: Phosphoric Acid Production (2013)

[Subpart Overview](#)

OVERVIEW OF SUBPART REPORTING REQUIREMENTS

Subpart Z requires affected facilities to report carbon dioxide (CO₂) process emissions from each wet-process phosphoric acid process line. First, use this page to identify each wet-process phosphoric acid process line and then enter Greenhouse gas (GHG) data required by Subpart Z for each wet-process phosphoric acid process line and for your facility. For additional information about Subpart Z reporting, please use the e-GGRT Help link(s) provided.

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 52017 (published August 21, 2011). In accordance with the rule, e-GGRT is not currently collecting this subset of inputs to emission equations.

[Subpart Z: View Validation](#)

FACILITY REPORTING INFO

Total Non-CEMS Process Lines	Phosphoric acid production Capacity (tons)	Status ¹
1		Incomplete OPEN

WET-PROCESS PHOSPHORIC ACID LINES (Lines not monitored by CEMS)

Unique Name/Identifier	Origins of Phosphate Rock	CO ₂ emissions (metric tons)	Status ¹	Delete
Unit 1	Central Florida		Incomplete	OPEN

[ADD a Unit](#)

WET-PROCESS PHOSPHORIC ACID LINES (Lines monitored by CEMS)

Unique Name/Identifier	Origins of Phosphate Rock	Status ¹	Delete
No units have been added			

[ADD a Unit Monitored by CEMS](#)

[Facility Overview](#)

¹A 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).

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On the Subpart Overview page, you will see the entered phosphate rock origins for the unit, but note that the CO₂ emissions are still blank and that the status is still "Incomplete".

Click on the blue "OPEN" button for the unit to enter in the CO₂ emissions information.


 UNITED STATES • ENVIRONMENTAL PROTECTION AGENCY

Subpart Z: Entering Unit-Level Emissions (2)

Z Phosphoric Facility
Subpart Z: Phosphoric Acid Production (2013)
[Subpart Overview](#) » [GHG Info](#) » [Unit 1](#)

CO₂CARBON DIOXIDE (CO₂) EMISSIONS CALCULATION

Use this page to report the annual CO₂ mass emissions for the wet-process phosphoric acid line, calculated using Equation Z-1a. For additional information about the data collected on this page, please use the e-GGRT Help link(s) provided.

Annual CO₂ mass emissions for wet-process phosphoric acid process line (metric tons)

EQUATION Z-1a

$$E_m = \sum_{i=1}^b \sum_{n=1}^z (IC_{ni} \times P_{ni}) \times \frac{2000}{2205} \times \frac{44}{12}$$

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

Annual CO₂ mass emissions for the wet-process phosphoric acid process line (metric tons)

[Use Equation Z-1a, Z-1b Calculation Spreadsheet](#)

Use the **OPTIONAL e-GGRT Calculation Spreadsheet** to calculate the Equation Result that is entered here. Inputs to emission equations for direct reporters are not currently collected by e-GGRT (76 FR 53057, published August 25, 2011).

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The Carbon Dioxide Emissions Calculation page shows the equation and parameters for the Unit based on the calculation methodology selected on the “Add/Edit a unit” form.

In this example, we had selected Equation Z-1a. As noted on the screen, you can move your mouse cursor to hover over any of the parameters of the equation to obtain the definition of the element.

In the red box, enter the CO₂ emissions that were calculated for this unit for the reporting year.

As we will discuss on the next slide, EPA has prepared optional worksheets to assist reporters in calculating emissions. You are not required to use these worksheets and they are NOT collected by e-GGRT. The optional worksheet for equations Z-1a and Z-1b are available by clicking on the blue hyperlink below the red box.

Calculation Spreadsheets, CBI and Inputs



- All elements included in e-GGRT are required reporting elements, as applicable
- E-GGRT currently reflects the rule deferring reporting of inputs to emission equations (See 76 FR 53057, published August 25, 2011). A link to the final rule can be found at the GHG Reporting Program Website: <http://www.epa.gov/climatechange/emissions/CBI.html>
- Data elements that have been determined to be CBI must be reported
- Reporting elements that have been determined to be CBI will be protected under the Clean Air Act (Sec. 114(c)) and EPA regulations (40 CFR Part 2)

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Reporters are encouraged to download the most recent version of the calculation spreadsheets, as revisions and/or improvements may have been made within the past year.

E-GGRT currently reflects the rule deferring reporting of certain inputs to emission equations for direct emitters.

The inputs to the equation in Subpart Z are NOT currently collected by e-GGRT. This means that in certain web forms in e-GGRT, you can view a required equation, but you will only enter the RESULT of that equation into e-GGRT. The inputs to the equation have been deferred until 2015.

EPA is providing OPTIONAL calculation spreadsheets that you can use to perform the calculations called for in the emission equations. These Microsoft Excel spreadsheets can be downloaded and opened on your own computer. Just click the hyperlink on the web-form to view and download the appropriate calculation spreadsheet for the equation you are working on. You can enter the data, including equation inputs, necessary to perform the calculation for the equation, and the spreadsheets will calculate the result for you. Once you have completed the calculation, enter the result onto the e-GGRT web form.

E-GGRT will NOT collect the calculation spreadsheets and you should NOT submit them to the EPA. The use of these calculation spreadsheets is voluntary. The spreadsheets are meant to support reporters as they complete the e-GGRT online reporting process. You do not need to use EPA's spreadsheets to perform the calculations for the emissions equations, but you do need to keep records of these calculations (under 40 CFR 98.3(g) and additional subpart-specific provisions) whether or not you use the calculation spreadsheets provided by EPA. If you do use the spreadsheets, you may choose to maintain copies to help meet your record-keeping requirements.

Subpart Z: Equation Z-1a and Z-1b Worksheet



Subpart Z - Phosphoric Acid Production Using Equations Z-1a or Z-1b
DO NOT SUBMIT THIS WORKSHEET TO EPA. FOR FACTORY REPORTS ONLY.

Version: 01.00
 Today's Date: 1/29/2014

Please complete the spreadsheet for each wet phosphoric acid line, and enter the resulting E_m values in cell C127 into the Z-2 excel spreadsheet.

Equation Z-1a:

$$E_m = \sum_{i=1}^n \left(\frac{C_{CO_2,i}}{12} \right) (C_{CO_2,i} + P_{R,i}) \cdot \frac{2000}{2200} \cdot \frac{44}{12} \quad (\text{Eq. Z-1a})$$

Equation Z-1b:

$$E_m = \sum_{i=1}^n \left(\frac{C_{CO_2,i}}{12} \right) (C_{CO_2,i} + P_{R,i}) \cdot \frac{2000}{2200} \quad (\text{Eq. Z-1b})$$

Notes:

E_m= Annual CO₂ mass emissions from a wet-process phosphoric acid process line *m* (according to this Equation Z-1a or Equation Z-1b) (metric tons).

C_{CO₂,i}= Inorganic carbon content of a grab sample batch of phosphate rock by origin *i* obtained during month *n*, from the carbon analysis results (percent by weight, expressed as a decimal fraction).

CO₂,i= Carbon dioxide content of a grab sample batch of phosphate rock by origin *i* obtained during month *n* (percent by weight, expressed as a decimal fraction).

P_{R,i}= Mass of phosphate rock by origin *i* consumed in month *n* by wet-process phosphoric acid process line *m* (tons).

n= Number of months during which the process line *m* operates.

N= Number of different types of phosphate rock in month, by origin. If the grab sample is a composite sample of rock from more than one origin, *N* = 1.

Facility Name: _____
 Reporter Name: _____
 Unit Name ID: _____
 Reporting Period: _____
 Comments: _____
 Unit Type: Wet-process phosphoric acid process line

Input Data

Process Measurement Output

N = Number of different types of phosphate rock in month, by origin. If the grab sample is a composite sample of rock from more than one origin, *N* = 1.

Input Data: Phosphate Rock From Origin 1

Month	C_{CO₂,i} = Inorganic carbon content of a grab sample batch of phosphate rock by origin from the carbon analysis results (percent by weight, expressed as a decimal fraction)	CO₂,i = Carbon dioxide content of a grab sample batch of phosphate rock by origin (percent by weight, expressed as a decimal fraction)	P_{R,i} = Mass of phosphate rock by origin consumed by wet-process phosphoric acid process line <i>m</i> (tons)	Annual CO ₂ mass emissions from wet-process phosphoric acid process line <i>m</i> using phosphate rock from Origin 1 (metric tons)
January				
February				
March				
April				
May				

Please provide these data inputs before proceeding with the data input below.

This is a screenshot of the Equation Z-1a and Z-1b Worksheet that you could use to calculate annual CO₂ emissions from a phosphoric acid process line that is not monitored by a CEMS.

The worksheet uses monthly phosphate rock consumption data and inorganic carbon content or carbon dioxide content to estimate the annual CO₂ emissions from each phosphate rock origin for a unit.

As you scroll further down the worksheet, you will see that the worksheet highlights the data to be entered into e-GGRT with an identical red box.

Subpart Z: Validation Messages (1)



Z Phosphoric Facility
Subpart Z: Phosphoric Acid Production (2013)
Subpart Overview

OVERVIEW OF SUBPART REPORTING REQUIREMENTS
Subpart Z requires affected facilities to report carbon dioxide (CO₂) process emissions from each wet-process phosphoric acid process line. First, use this page to identify each wet-process phosphoric acid process line and then enter Greenhouse gas (GHG) data required by Subpart Z for each wet-process phosphoric acid process line and for your facility. For additional information about Subpart Z reporting, please use the e-GGRT Help link(s) provided.

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 53027 (published August 26, 2011). In accordance with the rule, e-GGRT is not currently collecting this subset of inputs to emission equations.

[Subpart Z: View Validation](#)

FACILITY REPORTING INFO

Total Non-CEMS Process Lines	Phosphoric acid production Capacity (tons)	Status ¹
1		Incomplete OPEN

WET-PROCESS PHOSPHORIC ACID LINES (Lines not monitored by CEMS)

Unique Name/Identifier	Origins of Phosphate Rock	CO ₂ emissions (metric tons)	Status ¹	Delete
Unit 1	Central Florida	110,000 t	Complete	OPEN

[ADD a Unit](#)

WET PROCESS PHOSPHORIC ACID LINES (Lines monitored by CEMS)

Unique Name/Identifier	Origins of Phosphate Rock	Status ¹	Delete
No units have been added			

[ADD a Unit Monitored by CEMS](#)

[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).



When you return to the Subpart Z Overview page, the UNIT SUMMARY section now shows Unit 1 as Complete, circled in green.

You will notice that the "FACILITY REPORTING INFO" initially contains a status of "Incomplete", circled in red above. It looks like we forgot to enter a required data element.

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).

Subpart Z: Validation Messages (2)



Z Phosphoric Facility
Subpart Z: Phosphoric Acid Production (2013)
Subpart Overview • Validation Report

SUBPART VALIDATION REPORT
This report contains a complete set of validation messages for all data required by this Subpart. For additional information about Validation Reports, please use the e-GGRT Help link(s) provided. [Print-friendly version](#)

FACILITY-LEVEL VALIDATION MESSAGES

Validation Type ¹	ID ²	Message ³
Data Completeness	2004	Facility total annual phosphoric acid production capacity. This data element is required.

CML-LEVEL VALIDATION MESSAGES

Validation Type ¹	ID ²	CML Name	Message ³
No CML-level validation messages.			

EQUATION-LEVEL VALIDATION MESSAGES

Validation Type ¹	Unit	Phosphate FOCK Option	ID ²	Message ³
No equation-level validation messages found.				

[Subpart Overview](#)

¹ Validation Types: e-GGRT generates a variety of validation types, defined below:

- Data Completeness: data required for reporting is missing or incomplete.
- Data Quality: data is outside of the range of expected values. The value you have provided is outside the EPA estimated range for this data element. Please double check this value and revise, if necessary. If you believe it to be correct, please submit the value as is.
- Screen Error: a data value or combination of data values prevents e-GGRT from continuing to the next page. Typically, this will not appear on the Validation Report, but instead will be displayed on the data entry page at the time the error was created.

² ID: Each validation message contains a unique identifier. If you contact the e-GGRT Help Desk with a question about a validation message, please include this unique identifier with your request.

³ The presence of a validation message does not indicate that the information provided is without error.

Critical Validation Error: Messages that appear with the stop sign icon will prevent you from generating and submitting your annual report. You should first address the errors described. If you feel you have received one of these messages in error, or there's a reason why your report should be submitted despite the message, please submit a request to the e-GGRT Help Desk.

You will now be on the Subpart Z Validation Report page, which is a page that assists reporters with identifying potential errors in their reports.

There are many types of validation messages that could be generated based on the data you have entered for Subpart Z. As you can see from reviewing this page, the messages are grouped into three overall categories:

- Facility level messages
- CML-level messages (CML is short for CEMS Monitoring Location)
- Equation-level validation messages.

The Validation Report page will include all existing validation messages associated with your report. It is recommended that you correct each of the identified validation messages before generating and submitting your report. You can click directly on the blue text of the validation message (as indicated by the arrow above) and it will bring you to the screen to correct the potential error.

A description of the different types of validation messages is found on the bottom portion of the screen.

Note that EPA has implemented “Critical Validation Error” messages, which are indicated by the STOP sign and must be fixed before you are able to submit your annual report. This sign will appear next to the relevant error message and will also appear when you attempt to generate and submit your report if any critical errors exist.

In this example, we forgot to enter in the facility total annual phosphoric acid production capacity. We can click on the blue text for this error message and enter in the required information.

Subpart Z: Add Unit with CEMS



Z Phosphoric Facility
Subpart Z: Phosphoric Acid Production (2013)
Subpart Overview

OVERVIEW OF SUBPART REPORTING REQUIREMENTS
Subpart Z requires affected facilities to report carbon dioxide (CO₂) process emissions from each wet-process phosphoric acid process line. First, use this page to identify each wet-process phosphoric acid process line and then enter Greenhouse gas (GHG) data required by Subpart Z for each wet-process phosphoric acid process line and for your facility. For additional information about Subpart Z reporting, please use the e-OGRT Help link(s) provided.

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 63057 (published August 25, 2011). In accordance with the rule, e-OGRT is not currently collecting this subset of inputs to emission equations.

✓ Subpart Z: No Validation Messages

FACILITY REPORTING INFO

Total Non-CEMS Process Lines	Phosphoric acid production Capacity (tons)	Status ¹
1	1,000,000	Complete

WET-PROCESS PHOSPHORIC ACID LINES (Lines not monitored by CEMS)

Unique Name/Identifier	Origins of Phosphate Rock	CO ₂ emissions (metric tons)	Status ¹	Delete
Unit 1	Central Florida	110,000.0	Complete	OPEN

ADD a Unit

WET-PROCESS PHOSPHORIC ACID LINES (Lines monitored by CEMS)

Unique Name/Identifier	Origins of Phosphate Rock	Status ¹	Delete
No units have been added			

ADD a Unit Monitored by CEMS

Facility Overview

¹A 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 text).



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We entered in the missing data and now our Subpart Z form shows that the facility reporting info is "Complete" and there are no validation messages, as circled in green above. If we have no units monitored by CEMS, we are ready to submit.

But first, let's briefly walk through the process for entering unit information for a process line that is monitored by CEMS.

As in the case of a unit without a CEMS, the first step is to add a unit.

So, to begin, let's click on the blue hyperlink text to "ADD a Unit Monitored by CEMS".

Subpart Z: Unit with CEMS



Z Phosphoric Facility
Subpart Z: Phosphoric Acid Production (2013)
[Subpart Overview](#) » [Add/Edit a Unit](#) » [CEMS](#)

SUBPART Z UNITS
Please indicate/confirm whether or not the emissions for this Wet Phosphoric Acid manufacturing unit are measured by a CEMS. For additional information about reporting CEMS emissions, please use the e-GGRT Help link(s) provided. * denotes a required field

CONTINUOUS EMISSIONS MONITORING

Is this unit's emissions monitored using a CEMS? Yes No



You will then be directed again to another “Unit” information form. On this form you are asked to confirm the emissions methodology for this unit is a CEMS.

For this 2nd example, you see that the radio button or answer now defaults to “yes” and we will keep this choice.

Remember to then hit the green “SAVE” at the bottom of the page to accept your selection and continue.

Subpart Z: Unit with CEMS



Z Phosphoric Facility
Subpart Z: Phosphoric Acid Production (2013)
Subpart Overview • [Add/Edit a Unit](#)

SUBPART Z PHOSPHORIC ACID PRODUCTION UNIT
Subpart Z requires a facility to uniquely identify each wet-process phosphoric acid process line and provide the information described below for each. For additional information about adding and editing wet-process phosphoric acid process line, please use the e-GGRT Help link(s) provided. * denotes a required field

PROCESS LINE INFORMATION

Unique Name/Identifier* [Unit 2] (40 characters maximum)

Description of Process Line [This is a test CEMS unit]

Unit Type Wet-process Phosphoric Acid Process Line

ORIGINS OF PHOSPHATE ROCK

Origin	Phosphoric Acid Produced(tons)	Annual arithmetic average % inorganic carbon OR % CO ₂ (percent by weight)	Rock Consumed (tons)	Delete
No Phosphate Rock Origins have been added				
+ Add an Origin				

CONTINUOUS EMISSIONS MONITORING

Is this unit's emissions monitored using a CEMS? Yes No Note: Changing the answer to this question will result in losing any data, associated with this Unit for the current reporting year, as the reporting requirements will change.

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Once you select “save” you will be directed to this form.

This form, like the “Add/Edit a Unit” form we saw previously, has only 2 sections where you will need to enter data. The calculation methodology is not requested, since this is a unit monitored by CEMS.

In the first section – enter the unit name or identification number. You can also enter a description if needed to help identify the unit.

In the second section, enter phosphate rock origins used in this unit.

Finally, confirm again that the phosphoric acid process line is monitored by CEMS. You can change this unit to a non-CEMS unit under the heading “Continuous Emissions Monitoring”. Keep in mind that if you do decide to switch at this point, then you will lose any previously entered data for this unit once you hit the green “SAVE” button.

Once you have entered all the relevant information – hit the save button to continue.

Subpart Z: Review CEMS Units



Z Phosphoric Facility
Subpart Z: Phosphoric Acid Production (2013)
 Subpart Overview

OVERVIEW OF SUBPART REPORTING REQUIREMENTS
 Subpart Z requires affected facilities to report carbon dioxide (CO₂) process emissions from each wet-process phosphoric acid process line. First, use this page to identify each wet-process phosphoric acid process line and then enter Greenhouse gas (GHG) data required by Subpart Z for each wet process phosphoric acid process line and for your facility. For additional information about Subpart Z reporting, please use the e-QGRT Help link(s) provided.

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 82057 (published August 25, 2011). In accordance with the rule, e-QGRT is not currently collecting the subset of inputs to emission equations.

Subpart Z: View Validation

FACILITY REPORTING INFO

Total Non-CEMS Process Lines	Phosphoric acid production Capacity (tons)	Status ¹
1	1,000,000	Complete

WET PROCESS PHOSPHORIC ACID LINES (Lines not monitored by CEMS)

Unique Name/Identifier	Origins of Phosphate Rock	CO ₂ emissions (metric tons)	Status ¹	Delete
Unit 1	Central Florida	110,000.0	Complete	OPEN

WET PROCESS PHOSPHORIC ACID LINES (Lines monitored by CEMS)

Unique Name/Identifier	Origins of Phosphate Rock	Status ¹	Delete
Unit 2		Incomplete	

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					

1 Facility Overview

¹A 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).

1 CHECK

2 NEW

Once returned to the Subpart Z Overview Page, as shown by arrow 1, the Units Monitored by CEMS section will now reflect the unit we just entered.

As you read across the row you can see that the "Status" field is marked as "Incomplete" because we still need to enter phosphate rock origin information.

Notice also, as shown by arrow number 2, there is now a new table on the overview page titled "CEMS MONITORING LOCATION (CML) SUMMARY" table.

Let's first complete the Unit 2 data entry by clicking the "Unit 2" text, entering in the phosphate rock origin information, and then come back to this new table. Since this process is similar to what was performed before for non-CEMS, we will skip the data entry and proceed to what happens next after the data is entered.

Subpart Z: Add CEMS Monitoring Location



Z Phosphoric Facility

Subpart Z: Phosphoric Acid Production (2013)

Subpart Overview

OVERVIEW OF SUBPART REPORTING REQUIREMENTS

Subpart Z requires affected facilities to report carbon dioxide (CO₂) process emissions from each wet-process phosphoric acid process line. First, use this page to identify each wet-process phosphoric acid process line and then enter Greenhouse gas (GHG) data required by Subpart Z for each wet-process phosphoric acid process line and for your facility. For additional information about Subpart Z reporting, please use the e-GGRT Help link(s) provided.

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 70 FR 53057 (published August 25, 2011). In accordance with the rule, e-GGRT is not currently collecting this subset of inputs to emission equations.

[Subpart Z: View Validation](#)

FACILITY REPORTING INFO

Total Non-CEMS Process Lines	Phosphoric acid production Capacity (tons)	Status ¹
1	1,000,000	Complete

WET-PROCESS PHOSPHORIC ACID LINES (Lines not monitored by CEMS)

Unique Name/Identifier	Origins of Phosphate Rock	CO ₂ emissions (metric tons)	Status ¹	Delete
Unit 1	Central Florida	110,000.0	Complete	View

[ADD a Unit](#)

WET PROCESS PHOSPHORIC ACID LINES (Lines monitored by CEMS)

Unique Name/Identifier	Origins of Phosphate Rock	Status ¹	Delete
Unit 2	Montana Utah	Complete	

[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](#)

Add

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When you return to the Subpart Z Overview page, the status for Unit 2 will now show the rock origins and the status should be Complete. (If the status is incomplete, go back to each rock origin and make sure you have entered all information and hit SAVE)

So let's move to the final data entry section, CEMS Monitoring Location Summary table. Here you should add information which is required by Subpart C, Tier 4 method, including annual emissions. Note that this will only appear and is only required if you have at least one unit monitored by a CEMS. Click on the blue hyperlink as shown on this screen to "ADD a CEMS Monitoring Location."

Subpart Z: Add CML GHG Emissions



Z Phosphoric Facility
Subpart Z: Phosphoric Acid Production (2013)
Subpart Z 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.

CONFIGURATION

CEMS Monitoring Location NameID: CEMS Location 1 (40 characters maximum)

Description (optional): This is a test CEMS monitoring location

Configuration Type: Process-stationary combustion units share common stack

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"): natural gas (200 characters maximum)

TIER 4 METHODOLOGY INFORMATION

Calculation Methodology: Start Date: 01/01/2013

Calculation Methodology: End Date: 12/31/2013

QUARTERLY CO₂ EMISSIONS

Quarter 1	0 (metric tons)
Quarter 2	950 (metric tons)
Quarter 3	880 (metric tons)
Quarter 4	1000 (metric tons)

Summary:
Total CO₂ from CEMS (or applicable Part 75 methodology) (metric tons): 2830.0
Total Biogenic CO₂ (metric tons): 0.0
Total Non-Biogenic CO₂ (metric tons): 2830.0

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You will now be on the "CEMS Monitoring Location" page.

You will need to complete this form by entering all of the information as appropriate for your CEMS unit. This form reflects the reporting requirements for using the Tier 4 method required by Subpart C. As you proceed entering information on this page, dropdown menus and automated calendars are provided for convenience.

The first step is naming the CEMS monitoring location. The next steps, as shown by the circle, are to identify the type of CEMS configuration and the types of fuel combusted in the unit(s) monitored by the CEMS.

Is the CEMS unit monitoring a single process unit or monitoring multiple units sharing a common stack or monitoring a combination of process and combustion emissions? In this example, we have a CEMS that is monitoring emissions from process and stationary combustion units, so we made the appropriate selection from the drop down list.

Then enter the fuels combusted. Keep in mind that your answer is limited to 200 characters and spaces.

Here on the top half of the form you are asked to enter the start and end dates associated with this CEMS location and then CO₂ emissions for each quarter. Do not aggregate emissions data between quarters.

Do not leave any entries blank (except perhaps the optional description). If the answer is zero, enter "0".

Subpart Z: Add CML GHG Emissions (2)



ANNUAL CO₂ EMISSIONS

Total annual CO₂ 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 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.

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 CO₂ mass emissions for the CML (metric tons)

Total annual non-biogenic CO₂ mass emissions (includes fossil fuel, sorbent, and process CO₂ emissions) for the CML (metric tons)

EQUATION C-10 SUMMARY AND RESULTS (APPLICABLE ONLY TO CONFIGURATION TYPE OF "PROCESS/STATIONARY CO₂ EMISSIONS")

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

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

Enter CH₄ and N₂O 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 CH₄ emissions (metric tons)
[Use Equation C-10 spreadsheet to calculate](#)

Total N₂O emissions (metric tons)
[Use Equation C-10 spreadsheet to calculate](#)

Enter all required data. The the section labeled Annual CO₂ Emissions (metric tons) includes a check box. If the emissions reported for this CEMS include emissions calculated according to 98.33(a)(4)(viii) for a slipstream that bypassed the CEMS, click the box. Otherwise, leave it unchecked.

Next, divide your annual CO₂ emissions into total annual biogenic CO₂ emissions (metric tons) and total non-biogenic CO₂ emissions (metric tons).

You also will see these additional data entry cells for CH₄ and N₂O emissions from combustion, calculated according to Equation C-10 of Subpart C.

For the CH₄ and N₂O emissions, you can again download the optional calculation worksheets using the links provided. When the emissions are calculated, enter results from your worksheets into the red cells as shown.

Subpart Z: Linking CML to Unit



ADDITIONAL EMISSIONS INFORMATION	
Total number of source operating hours in the reporting year	<input type="text" value="400"/> (hours)
The total operating hours in which a substitute data value was used in the emissions calculations for CO ₂ concentration	<input type="text" value="0"/> (hours)
The total operating hours in which a substitute data value was used in the emissions calculations for stack gas flow rate	<input type="text" value="0"/> (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)	<input type="text" value="0"/> (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	
<input type="button" value="CANCEL"/>	<input type="button" value="SAVE"/>



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Next is the “Additional Emissions Information” section which includes operating hours in the reporting year and the number of operating hours during which missing data procedures were used.

The final step at the bottom of this form (shown by the arrow) is to LINK the emissions monitored by this CEMS location to the appropriate unit or units. For our example, we would link to Unit 2.

Click the “Add/Remove a process unit that exhausts to this CEMS monitoring location” hyperlink.

Subpart Z: Linking CML to Unit (2)



Z Phosphoric Facility
Subpart Z: Phosphoric Acid Production (2013)
Subpart Z Overview • CEMS Location 1 • [Add/Edit Process Units](#)

IDENTIFY PROCESS UNIT(S)
Use this page to select each process unit that is monitored by the CEMS Monitoring Location (CML) Summary. For additional information about this page, please use the e-GGRT Help links provided. * denotes a required field

PROCESS UNIT: UNIT 2
Is this process unit monitored by the CEMS Monitoring Location? (check if true)

SAVE ←

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Clicking on the hyperlink will open this simple form.

Click the checkboxes to link the CEMS monitoring location we just entered (CEMS Location 1) to the unit or units.

Be sure again to hit the green “SAVE” button to return to the CEMS MONITORING LOCATION page.

Subpart Z: Linking CML to Unit (3)



EQUATION C-10 SUMMARY AND RESULTS (APPLICABLE ONLY TO CONFIGURATION TYPE OF "PROCESS/STATIONARY CO

$CH_4 \text{ or } N_2O = 0.001 \times (HI)_d \times EF$

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

Enter CH₄ and N₂O 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 CH₄ emissions (metric tons)
Use Equation C-10 spreadsheet to calculate

Total N₂O 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 CO₂ 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
Unit 2

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

1 CHECK → **SAVE**

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When you return to the CEMS MONITORING LOCATION PAGE – Scroll down to the bottom of the page and you should see Unit 2 now linked to this monitoring location in the table.

Once you have confirmed that your CEMS location is linked to the appropriate units and all other data entry on this page is complete, hit the green “SAVE” button to return to the Subpart Z Overview page.

Subpart Z: Subpart Overview



Z Phosphoric Facility
Subpart Z: Phosphoric Acid Production (2013)
Subpart Overview

OVERVIEW OF SUBPART REPORTING REQUIREMENTS
Subpart Z requires affected facilities to report carbon dioxide (CO₂) process emissions from each wet-process phosphoric acid process line. First, use this page to identify each wet-process phosphoric acid process line and then enter Greenhouse gas (GHG) data required by Subpart Z for each wet-process phosphoric acid process line and for your facility. For additional information about Subpart Z reporting, please use the e-GGRT Help link(s) provided.

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 53067 (published August 26, 2011). In accordance with the rule, e-GGRT is not currently collecting this subset of inputs to emission equations.

Subpart Z: No Validation Messages

FACILITY REPORTING INFO

Total Non-CEMS Process Lines	Phosphoric acid production Capacity (tons)	Status
1	1,000,000	Complete

WET-PROCESS PHOSPHORIC ACID LINES (Lines not monitored by CEMS)

Unique Name/Identifier	Origins of Phosphate Rock	CO ₂ emissions (metric tons)	Status	Delete
Unit 1	Central Florida	110,000.0	Complete	<input type="button" value="OPEN"/>

WET-PROCESS PHOSPHORIC ACID LINES (Lines monitored by CEMS)

Unique Name/Identifier	Origins of Phosphate Rock	Status	Delete
Unit 2	Montana Utah	Complete	<input type="button" value="X"/>

CEMS MONITORING LOCATION (CML) SUMMARY

CML Name/Identifier	CML Configuration	Monitored Unit(s)	Total CO ₂ emissions (metric tons)	Status	Delete
CEMS Location 1	Process/stationary combustion units share common stack	Unit 2	2,830.0	Complete	<input type="button" value="X"/>

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Once you return to the Subpart Z overview page, if you have completed data entry for the CEMS monitoring location page, you should see that the status column indicates that data entry is complete as shown on this screen with the circle. You can also see the information we have entered in the CEMS Monitoring Location Summary table.

Since we have entered most of the necessary information and our tables indicate that data entry is complete, it is a good time to check the Validation Box (as shown by the arrow). The Validation Box indicates whether we have validation errors that need to be resolved.

When the validation box is red and shows an exclamation mark, we have some messages to address. The check mark indicates that no validation messages exist.

You have now completed all data entry for Subpart Z and can scroll down to the bottom of the page. Click "Facility Overview" to return to the Facility Overview page to finish data entry for the other subparts.

Facility Overview

Z Phosphoric Facility
e-GGRT Greenhouse Gas Data Reporting (2013)
 Select Facility » Facility or Supplier Overview

FACILITY OR SUPPLIER OVERVIEW
 This page allows you to add the source and/or supplier categories for which your facility or supplier will be reporting, then to access those data reporting screens using the OPEN buttons.
 After data reporting is complete, you can initiate the annual report review and submission process from this page by using the SUBMIT button (or RESUBMIT for subsequent submissions if needed).

Facility's GHG Reporting Method: Data entry via e-GGRT web-forms (Change)

REPORT DATA

2013 Reporting Source or Supplier Category	Validation Messages?	Subpart Reporting
Subpart A—General Information	None	OPEN
Subpart Z—Phosphoric Acid Production	None	OPEN

ADD or REMOVE Subparts

If all subparts are completed and Validation Messages addressed to your satisfaction, you are ready to prepare and submit an Annual Report.

SUBMIT ANNUAL REPORT

Report	Uploaded File Name	Status	Submitted Date	Certification Date
GENERATE / RESUBMIT				

CO₂ equivalent emissions from facility subparts C-II, SS, and TT (metric tons): 110,000.0

Biogenic CO₂ emissions from facility subparts C-II, SS, and TT (metric tons): 0.0

CO₂ equivalent emissions from supplier subparts LL-QQ (metric tons): 0.0

VIEW GHG DETAILS

View Details

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When you return to the facility overview page, you will see that the total CO₂ emissions include the emissions from subpart Z.

You can view the details of your emissions and supplies using the “VIEW GHG DETAILS” button, as shown by the arrow.

This is where the “rollup” is presented, which provides your total CO₂ equivalent emissions (excluding biogenic), biogenic CO₂ emissions, and CO₂ equivalent quantities from the supplier categories.

If you click on “view GHG details” you can see the underlying details on the metric tons of GHGs, by gas and by subpart, along with the GWPs that go into the calculations.

View Facility GHG Details



Z Phosphoric Facility
e-GGRT Greenhouse Gas Data Reporting (2013)
 Select Facility » Facility or Supplier Overview » GHG Quantity Details

FACILITY GHG QUANTITY DETAIL
 Below are the current roll-up GHG values for this facility.

2013 CO₂ equivalent emissions from facility subparts C-II, SS, and TT (metric tons) **110,000.0**

2013 biogenic CO₂ emissions from facility subparts C-II, SS, and TT (metric tons) **0.0**

2013 CO₂ equivalent emissions from supplier subparts LL-QQ (metric tons) **0.0**

GHG DETAILS (facility subparts C-II, SS, and TT)

Subpart	Greenhouse Gas	Result ¹ (metric tons)	GWP
Subpart Z	CO ₂ (biogenic)	0.0	1
Subpart Z	CO ₂ (excluding biogenic)	110,000.0	1
Subpart Z	CH ₄	0.00	.25
Subpart Z	N ₂ O	0.000	298

[Edit result\(s\)](#)

GHG DETAILS (supplier subparts LL-QQ)

Subpart	Greenhouse Gas	Result ¹ (metric tons)	GWP
No GHG data found for supplier subparts.			

[Edit result\(s\)](#)

[← Facility Overview](#)

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Note that the GHG Details page will help you review information you entered and can be useful to check totals.

Note that in this example, CH₄ and N₂O are shown for Subpart Z only because we have included a unit in Subpart Z that uses a CEMS to monitor process and stationary combustion emissions. If you do not use a CEMS, only CO₂ will be shown for Subpart Z.

Submitting GHG Report



Z Phosphoric Facility
e-GGRT Greenhouse Gas Data Reporting (2013)
Select Facility » Facility or Supplier Overview

FACILITY OR SUPPLIER OVERVIEW
This page allows you to add the source and/or supplier categories for which your facility or supplier will be reporting, then to access those data reporting screens using the OPEN buttons.
After data reporting is complete, you can initiate the annual report review and submission process from this page by using the SUBMIT button (or RESUBMIT for subsequent submissions if needed).
Facility's GHG Reporting Method: Data entry via e-GGRT web-forms (Change)

REPORT DATA

2013 Reporting Source or Supplier Category	Validation Messages?	Subpart Reporting
Subpart A—General Information	None	OPEN
Subpart Z—Phosphoric Acid Production	None	OPEN

➤ ADD or REMOVE Subparts

If all subparts are completed and Validation Messages addressed to your satisfaction, you are ready to prepare and submit an Annual Report.

SUBMIT ANNUAL REPORT

Report	Uploaded File Name	Status	Submitted Date	Certification Date	
					GENERATE / RESUBMIT

110,000.0
CO₂ equivalent emissions from facility subparts C-II, SS, and TT (metric tons)

0.0
Biogenic CO₂ emissions from facility subparts C-II, SS, and TT (metric tons)

0.0
CO₂ equivalent emissions from supplier subparts LL-QQ (metric tons)

VIEW GHG DETAILS



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Now we are back on the Facility Overview page. For the purpose of this example, you have entered all the information for your facility and will now submit your report. This process is the same as it has been in previous years.

Near the bottom of the page, click “GENERATE/RESUBMIT” (as shown by the green arrow).

Submitting GHG Report: Generate Report



Generate and Review Certify and Send Confirmation

Z Phosphoric Facility

e-GGRT Greenhouse Gas Annual Report Submission (2013)

Select Facility » Facility Overview » **Generate and Review**

PRE-CERTIFICATION PREPARATION
Preparation includes generating then reviewing the Annual Report. When complete, you will be able to proceed to certify and submit the Annual Report.

Report	Status	Last Generated
2013 Annual Report	Not generated	

GENERATE REPORT

Generating the report may take from 1 to 10 minutes depending upon the volume of data.

Once your facility has generated a report, it is still possible to return to the data reporting screens to make changes. Those changes, however, will not be reflected in your Annual Report until you generate it again.

GENERATE REPORT

BACK

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On the next screen, click “GENERATE REPORT”.

Submitting GHG Report: Ready for Review

Generate and Review Certify and Send Confirmation

Z Phosphoric Facility
e-GGRT Greenhouse Gas Annual Report Submission (2013)
 Select Facility • Facility Overview • **Generate and Review**

PRE-CERTIFICATION PREPARATION
 Preparation includes generating then reviewing the Annual Report. When complete, you will be able to proceed to certify and submit the Annual Report.

Report	Status	Last Generated
2013 Annual Report v1	Ready for review	01/30/2014 6:06:26 PM

GENERATE REPORT
 Generating the report may take from 1 to 10 minutes depending upon the volume of data.
 Once your facility has generated a report, it is still possible to return to the data reporting screens to make changes. Those changes, however, will not be reflected in your Annual Report until you generate it again.

GENERATE REPORT
 The Annual Report has already been prepared. Clicking this button will regenerate the report. This action will reflect any changes that have been made to the reported data.

REVIEW REPORT
 Prior to the submission and certification of your report to EPA, you may review it by using either the VIEW REPORT or VIEW XML buttons.

VIEW REPORT **VIEW XML** **VIEW PUBLIC HTML** **VIEW PUBLIC REPORT** **VIEW PUBLIC XML**

TREND REPORT
 View a comparison of this year's Annual Report to previous years' certified submissions.

TRENDS BY CODE **TRENDS BY GAS**

SUBMIT AND CERTIFY REPORT
 If you have reviewed and are satisfied with your Annual Report you may proceed to submit then certify. The certification process includes applying your electronic signature (entering your password and answering a challenge question).

SUBMIT & CERTIFY
 When you click the SUBMIT & CERTIFY button, your report will be submitted to EPA and e-GGRT will require you to certify it. You will not be able to generate a new report until the submitted report has been certified.

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The report will show that the status is “In Progress” for a short period of time.

When your report has been generated, you will see the message, “Ready for review” under Status. As indicated by the arrow, you can click on the blue “VIEW REPORT” button to see an HTML version of your full report or on the blue “VIEW XML” button to see an XML version. You can also view the public version of your report, which should not include any potential confidential business information. Please keep in mind that determinations regarding whether or not data elements may be considered confidential business information have been made via previous rulemakings.

Subpart Z: Preview Report



Subpart Z: Phosphoric Acid Production

No Cems Phosphoric Acid wet Process Line Details:

Unit Name: Unit 1
 Unit Type: Wet-process phosphoric acid line
 Unit Description: This is a test unit
 Calculation Method: Z1a
 Annual Phosphoric Acid Production Capacity: 500000 (tons)
 Annual CO2 mass emissions for the wet-process Phosphoric acid process line: 110000 (Metric Tons)

Phosphate Rock Origin Details:

Origin of Phosphate Rock: Central Florida
 Annual amount of Phosphoric Acid Produced: 300000 (tons)
 Annual Arithmetic Average percent inorganic carbon or the Annual arithmetic average percent Carbon dioxide (Delivered from Monthly Sampling Records): 0.0333
 Annual amount of Rock Consumed: 1000000 (tons)

Month	Inorganic Carbon content	Method used to estimate any missing values of inorganic carbon content	Mass consumed
	Substituted(Y/N)		Substituted (Y/N)
January	N		N
February	N		N
March	Y	Default factor from Table Z-1	N
April	N		N
May	N		N
June	N		Y
July	N		Y
August	N		N
September	N		N
October	N		N
November	N		N
December	N		N

This is an excerpt of the generated report showing some of the Subpart Z information. This excerpt only includes the information for the non-CEMS unit that was used in the example.

Subpart Z: Preview Public Report



Subpart Z: Phosphoric Acid Production

Gas Information Details

Gas Name	Other Gas Name	Gas Quantity	Own Result?
Biogenic Carbon dioxide		0 (Metric Tons)	
Methane		0 (Metric Tons)	
Nitrous Oxide		0 (Metric Tons)	
Carbon Dioxide		110000 (Metric Tons)	

Total number of wet-process phosphoric acid process lines not monitored by CEMS: 1
 Facility Total Annual Phosphoric Acid Production Capacity: 1000000 (tons)

No Cems Phosphoric Acid wet Process Line Details:

Unit Name: Unit 1
 Unit Type: Wet-process phosphoric acid line
 Unit Description:
 Calculation Method: Z1a
 Annual Phosphoric Acid Production Capacity: ()
 Annual CO2 mass emissions for the wet-process Phosphoric acid process line: 110000 (Metric Tons)

Phosphate Rock Origin Details:

Origin of Phosphate Rock:
 Annual amount of Phosphoric Acid Produced: ()
 Annual Arithmetic Average percent inorganic carbon or the Annual arithmetic average percent Carbon dioxide (Delivered from Monthly Sampling Records):
 Annual amount of Rock Consumed: ()

Month	Inorganic Carbon content	Method used to estimate any missing values of inorganic carbon content	Mass consumed
	Substituted(Y/N)		Substituted (Y/N)
January	N		N
February	N		N
March	Y	Default factor from Table Z-1	N
April	N		N
May	N		N
June	N		Y
July	N		Y
August	N		N
September	N		N
October	N		N
November	N		N
December	N		N

You can also view the Public Report to see what information is available to the public through the EPA publication web site (FLIGHT). As you see in this example, the data elements that may be considered to be confidential business information (CBI) have been removed from the report.

Submitting GHG Report: Ready for Review



Generate and Review Certify and Send Confirmation

Z Phosphoric Facility
e-GGRT Greenhouse Gas Annual Report Submission (2013)
Select Facility • Facility Overview • **Generate and Review**

PRE-CERTIFICATION PREPARATION
Preparation includes generating then reviewing the Annual Report. When complete, you will be able to proceed to certify and submit the Annual Report.

Report	Status	Last Generated
2013 Annual Report v1	Ready for review	01/30/2014 6:08:26 PM

GENERATE REPORT
Generating the report may take from 1 to 10 minutes depending upon the volume of data.
Once your facility has generated a report, it is still possible to return to the data reporting screens to make changes. Those changes, however, will not be reflected in your Annual Report until you generate it again.

GENERATE REPORT
The Annual Report has already been prepared. Clicking this button will regenerate the report. This action will reflect any changes that have been made to the reported data.

REVIEW REPORT
Prior to the submission and certification of your report to EPA, you may review it by using either the VIEW REPORT or VIEW XML buttons.

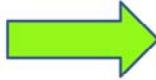
VIEW REPORT **VIEW XML** **COMPARE THIS XML** **VIEW PREVIOUS REPORT** **VIEW PREVIOUS XML**

TREND REPORT
View a comparison of this year's Annual Report to previous years' certified submissions.

TRENDS BY CODE **TRENDS BY GAS**

SUBMIT and CERTIFY REPORT
If you have reviewed and are satisfied with your Annual Report you may proceed to submit then certify. The certification process includes applying your electronic signature (entering your password and answering a challenge question).

SUBMIT/CERTIFY
When you click the SUBMIT/CERTIFY button, your report will be submitted to EPA and e-GGRT will require you to certify it. You will not be able to generate a new report until the submitted report has been certified.



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Now we are back on the report “generate and review” page. Once you are satisfied with your report, click on “SUBMIT/CERTIFY” to proceed.

Submitting GHG Report: Certify Report



G-C-P-nonCEMS Ammonia (2010)
e-GGRT Greenhouse Gas Annual Report Submission
Select Facility » Facility Overview » Certify and Send

CERTIFY AND SUBMIT
Your electronic signature is required to submit the facility or suppliers annual report to EPA. Please review the information below, enter your password, then answer when prompted your challenge questions.

FACILITY INFORMATION

Facility Name	G-C-P-nonCEMS Ammonia
Address	1313 Mockingbird Lane Transylvania TN 37891
Owners and Operators	Lily Munster
Reporting Year	2010

CERTIFICATION STATEMENT
I am authorized to make this submission on behalf of the owners and operators of the facility or supplier, as applicable, for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.

NOTE TO AGENTS
The designated representative or alternate designated representative must sign (i.e., agree to) this certification statement. If you are an agent and you click on "SUBMIT", you are not agreeing to the certification statement, but are submitting the certification statement on behalf of the designated representative or alternate designated representative who is agreeing to the certification statement. An agent is only authorized to make the electronic submission on behalf of the designated representative, not to sign (i.e., agree to) the certification statement.

ELECTRONIC SIGNATURE
Password * I'm agreeing to the above

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Next you will see information about the facility for which you are sending the report (circle). Please check this information carefully if you are reporting for multiple facilities.

After reading the "CERTIFICATION STATEMENT" (arrow 1) and "NOTE TO AGENTS," (arrow 2) type your account password and click "SUBMIT" (arrow 3).

Then you will be prompted to answer a secret question (the specific question may vary) and again click "SUBMIT".

Submitting GHG Report: Confirmation



Generate and Review Certify and Send Confirmation

G-C-P-nonCEMS Ammonia (2010)

e-GGRT Greenhouse Gas Annual Report Submission

Select Facility » Facility Overview » Confirmation

SUCCESS!
Your facility's annual GHG report has been successfully submitted to EPA and certified. The facility's representatives and agents will receive an email confirmation.

[Print-friendly version](#)

ANNUAL REPORT SUBMISSION

Facility Name	G-C-P-nonCEMS Ammonia
Address	1313 Mockingbird Lane Transylvania TN 37891
Reporting Year	2010
Submitted Date	Tue May 24 11:40:43 EDT 2011
Certification Date	Tue May 24 11:41:34 EDT 2011
Submitted By	Palmer, Marcus
Confirmation Number	661-621

[HOME](#)

When you have successfully submitted your GHG report into the e-GGRT system, you will see this confirmation screen.

Submitting GHG Report: Facility Overview



G-C-P-nonCEMS Ammonia (2010)
e-GGRT Greenhouse Gas Data Reporting
 Select Facility • [Facility](#) or [Supplier Overview](#)

FACILITY OR SUPPLIER OVERVIEW
 This page allows you to add the source and/or supplier categories for which your facility or supplier will be reporting, then to access those data reporting screens using the OPEN buttons.
 After data reporting is complete, you can initiate the annual report review and submission process from this page by using the SUBMIT button (or RESUBMIT for subsequent submissions if needed).

Facility's GHG Reporting Method: Data entry via e-GGRT web-forms (Change)

CO₂ equivalent emissions (excluding biogenic) from source categories (metric tons) 46,635,525
Biogenic CO₂ emissions from source categories (metric tons) 0
CO₂ equivalent quantity from supplier categories (metric tons) 392,600
[VIEW GHG DETAILS](#)

REPORT DATA

2010 Reporting Source or Supplier Category	Validation Messages?	Subpart Reporting
Subpart A—General Information	None	OPEN
Subpart G—Ammonia Manufacturing	None	OPEN
Subpart V—Nitric Acid Production	None	OPEN
Subpart Z—Phosphoric Acid Production	None	OPEN
Subpart PP—Suppliers of Carbon Dioxide (CO ₂)	None	OPEN

[ADD](#) or [REMOVE](#) Subparts

If all subparts are completed and Validation Messages addressed to your satisfaction, you are ready to prepare and submit an Annual Report.

SUBMIT ANNUAL REPORT

Report	Uploaded File Name	Status	Submitted Date	Certification Date	
2010 Annual Report v1		Complete, certified and sent	05/24/2011 11:40 AM	05/24/2011 11:41 AM	HTML XML Receipt

[GENERATE/RESUBMIT](#)

FACILITIES NOT SUBMITTING AN ANNUAL REPORT
 If this facility is not submitting an annual report this reporting year, please check the box below. For more information regarding legitimate reasons for not submitting a report to EPA, please use the e-GGRT Help links to the left.

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This is the Facility Overview screen. Under “SUBMIT ANNUAL REPORT” (shown by the green circle) you can see when your report was signed and submitted. You can view your report in HTML format and you can review your Receipt.

If you need to change data that you have previously submitted, go through the entry screens and change the necessary information. After completing your changes, click “GENERATE/RESUBMIT” to re-submit your report with the new information. Then re-certify and re-submit your report.

Help Resources



- e-GGRT Information & Help
 - <http://www.ccdsupport.com>
 - Email: GHGreporting@epa.gov
- GHG Reporting Rule Information & Help
 - <http://www.epa.gov/ghgreporting/reporters/notices/index.html>
 - Email: GHGReporting@epa.gov
- Subpart Z Resource Page
 - <http://www.epa.gov/ghgreporting/reporters/subpart/z.html>

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For help with e-GGRT, including Subpart Z questions and general items, such as password resets and applicability questions, please e-mail our help desk at GHGReporting@epa.gov. You can also visit our Subpart Z resource page at the link provided.

This concludes our training session. We hope this overview has provided you greater familiarity with navigating and entering information using the e-GGRT reporting tool for Subpart Z reporting.