

# Inputs Verifier Tool (IVT) Sandbox Testing

October 27, 2014

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# Summary of Recent Final Rule

- EPA finalized "Revisions to Reporting and Recordkeeping Requirements, and Proposed Confidentiality Determinations under the Greenhouse Gas Reporting Program" [79 FR 63750] on September 26, 2014.
- These amendments are the result of an evaluation of the inputs to emission equations for which the reporting deadline was deferred until March 31, 2015 (hereinafter referred to as "inputs to equations" data elements.) Where the Agency identified disclosure concerns, the EPA finalized the following amendments to reporting and recordkeeping requirements and an alternative electronic verification approach.
  - Added a requirement that reporters using "inputs to equations" data elements to calculate reported GHGs under certain subparts must use an EPA-provided electronic Inputs Verifier Tool (IVT).
    - Certain subpart C reporters have the choice to either use IVT or report their inputs to equations to the EPA.
    - If subpart C reporters choose to report their subpart C inputs to equations to EPA, must waive their right to a confidentiality claim.
  - Added approximately 20 new data reporting elements to facilitate verification.
  - Enhanced the recordkeeping requirements by changing the format for maintaining records of "inputs to equations" data elements and lengthening the record retention period from three to five years for all subparts that apply to the reporters required to use the IVT.

# Summary of the Inputs Verifier Tool

- The Inputs Verifier Tool (IVT) will be deployed within the GHGRP's electronic greenhouse gas reporting tool (e-GGRT) and will be used as part of the annual reporting process.
- Reporters will enter the inputs to emission equations for which reporting is no longer required under the amendments into IVT.
- IVT will use these entered data to calculate the equation results and to conduct electronic verification checks on the entered inputs to emission equations.
- IVT will generate a verification summary that informs the EPA about the verification results without specifying the entered inputs to emission equations.
- IVT will not retain the entered inputs to emission equations.
- IVT will generate a file listing the inputs to equations entered into IVT, which must be maintained as a record for 5 years.

# About the Inputs Verifier Tool Sandbox

- EPA is providing an opportunity to test and provide feedback on the Inputs Verifier Tool (IVT) via an open testing period, or “sandbox.”
- EPA encourages all stakeholders to preview and familiarize themselves with the new tool before the open reporting period begins, typically in mid-February.
- Sandbox will remain open well beyond the three week feedback deadline to allow facilities to further prepare for the open reporting season.

Date Testing Opens	Subparts Available for Testing	Deadline for Optional Feedback to EPA
October 27, 2014	Subparts C, G, H, K, N, P, Q, S, U, X, Z, AA, BB, CC, EE, GG XML reporting: Subparts P & X	November 17, 2014
November 17, 2014	Subparts E, F, O, R, V, Y	December 6, 2014
December 1	XML reporting: subparts C & Y	December 22, 2014

# About the Inputs Verifier Tool Sandbox (continued)

- Scope of sandbox: Sandbox addresses only IVT. The following additional RY14 features are not part of the sandbox:
  - Reporting of subpart C inputs to equations (if option to report is chosen).
  - Reporting the subset of inputs to equations that have not been removed from the reporting requirements for RY 2010-2014.
- Providing feedback to the EPA on sandbox:
  - Please use the form provided on: <http://www.epa.gov/ghgreporting/contactus.html>.
- Entering data into the sandbox: This testing environment (sandbox) is for demonstration purposes only. Please be mindful of the information that you enter into the sandbox. When the sandbox period is over, you will no longer have access to any information that you entered. In addition, information entered into this sandbox (with the exception of equation inputs data, which is NOT saved by the software) could be subject to disclosure pursuant to the Freedom of Information Act. As a result, only hypothetical data should be entered into this sandbox.

# Setting Up Your Account

You must create a new account specific to the IVT Sandbox - you cannot use an existing e-GGRT account.

1. Go to <http://sandbox.ccdsupport.com/ghg-ry2014/login.do>
2. Click the **REQUEST IVT SANDBOX** button.

The screenshot shows the EPA's electronic Greenhouse Gas Reporting Tool (e-GGRT) Inputs Verifier Sandbox interface. The header includes the EPA logo and the text 'United States Environmental Protection Agency' on the left, and 'e-GGRT Electronic Greenhouse Gas Reporting Tool' and 'Inputs Verifier SANDBOX' on the right. A navigation menu on the left contains 'e-GGRT Help' and 'Login to e-GGRT'. The main content area is titled 'Welcome to EPA's electronic Greenhouse Gas Reporting Tool' and includes a section for 'Inputs Verification Tool Sandbox' with a description and a link to a 'Help Site'. A 'Warning Notice' is displayed at the bottom of the main content area. On the right side, there is an 'IVT SANDBOX LOGIN' section with input fields for 'User Name' and 'Password', a 'REQUEST IVT SANDBOX' button (highlighted with a red box and arrow), and links for 'FORGOT YOUR USER NAME?' and 'FORGOT YOUR PASSWORD?'. Below the login section, there is a section for 'Request an Account for the "IVT Sandbox" Test Environment' with instructions and a 'REQUEST IVT SANDBOX' button. At the bottom right, there is a yellow box titled 'Existing e-GGRT Account Holders:' with a warning that existing credentials are not valid for the IVT Sandbox. The footer contains links for 'EPA Home', 'Privacy and Security Notice', and 'Contact Us', along with the text 'e-GGRT RY2014.R16 | UA1-1'.

# Setting Up Your Account (continued)

3. Fill in all of the information on the page, then click the **SUBMIT** button.

The screenshot shows the EPA e-GGRT Inputs Verifier Sandbox account setup page. The header includes the EPA logo and the text "United States Environmental Protection Agency" on the left, and the "e-GGRT" logo with "Electronic Greenhouse Gas Reporting Tool" and the "Inputs Verifier SANDBOX" logo on the right. A left sidebar contains "e-GGRT Help" and "A User Profile". The main content area is titled "Request an IVT Sandbox Account" and contains a "SANDBOX TESTING" warning box. Below the warning is a "USER INFORMATION" section with four required text input fields: "First Name", "Last Name", "E-Mail", and "Re-enter e-mail". A legend indicates that an asterisk (\*) denotes a required field. At the bottom are "CANCEL" and "SUBMIT" buttons.

**EPA** United States Environmental Protection Agency

**e-GGRT** Electronic Greenhouse Gas Reporting Tool

**Inputs Verifier SANDBOX**

**Request an IVT Sandbox Account**

**SANDBOX TESTING**

This testing environment (sandbox) is for demonstration purposes only. Please be mindful of the information that you enter into the sandbox. When the sandbox period is over, you will no longer have access to any information that you entered. In addition, information entered into this sandbox (with the exception of equation inputs data, which is NOT saved by the software) could be subject to disclosure pursuant to the Freedom of Information Act. As a result, only hypothetical data should be entered into this sandbox.

\* denotes a required field

**USER INFORMATION**

First Name \*

Last Name \*

E-Mail \*

Re-enter e-mail \*

**CANCEL** **SUBMIT**



# Setting Up Your Account (continued)

- The IVT sandbox will generate a user ID, password, and a hypothetical facility. The user ID and password will be sent to you in an e-mail message from [eGGRT@ccdsupport.com](mailto:eGGRT@ccdsupport.com).

Subject: e-GGRT: Your 'IVT Sandbox' Testing Account (Ref# 44130)

Thank you for registering to use the Inputs Verification Tool Sandbox.

You have been assigned the following user account:

User Name: XXXXXXXX

Password: XXXXXXXX

\*\*\*\* DO NOT ENTER DATA THAT MIGHT INCLUDE CONFIDENTIAL BUSINESS INFORMATION \*\*\*\*

You should limit your data entry to sample data. When the testing period ends you will no longer have access to any of the data entered. None of the data in the e-GGRT Sandbox will be maintained after the close of the Sandbox testing period.

If you believe you received this message in error, or have questions, please contact the Help Desk at [sandbox@ccdsupport.com](mailto:sandbox@ccdsupport.com), or by calling 1-877-444-1188, Monday through Friday during regular business hours.

# Setting Up Your Account (continued)

5. To log in, go to <http://sandbox.ccdsupport.com/ghg-ry2014/login.do>

In the **IVT Sandbox LOGIN** box, enter the user ID and password that were sent to you via e-mail. Enter the user ID in the **User Name** field and the password in the **Password** field, then click the **Sandbox LOGIN** button.

**EPA** United States Environmental Protection Agency

**e-GGRT** Electronic Greenhouse Gas Reporting Tool

**Inputs Verifier** **SANDBOX**

**IVT SANDBOX LOGIN**

User Name: SANDBOX83ks118G

Password: ●●●●●●●●

**IVT SANDBOX LOGIN**

[FORGOT YOUR USER NAME?](#)  
[FORGOT YOUR PASSWORD?](#)

**Request an Account for the "IVT Sandbox" Test Environment**  
If you are interested in exploring the Inputs Verification Tool (IVT) Sandbox, use the **REQUEST IVT SANDBOX ACCOUNT** button to register.

**REQUEST IVT SANDBOX**

**Existing e-GGRT Account Holders:**  
You must request an Inputs Verification Tool (IVT) Sandbox account to log-in here. Your e-GGRT credentials are NOT valid for the IVT Sandbox.

**Warning Notice**  
Inputs Verifier Tool (IVT) Sandbox stakeholder testing is for authorized use only. Data in the sandbox system is for testing purposes only and will not be accessible to the user once the testing period closes. All submitted information may be monitored, recorded, read, copied, and disclosed by and to authorized personnel. Access or use of this computer system by any person, whether authorized or unauthorized, constitutes consent to these terms.

EPA Home | Privacy and Security Notice | Contact Us

e-GGRT RY2014.R16 | UA1-1

# Setting Up Your Account (continued)

The screenshot displays the EPA e-GGRT Inputs Verifier Sandbox interface. At the top left is the EPA logo and the text 'United States Environmental Protection Agency'. To the right, it says 'e-GGRT Electronic Greenhouse Gas Reporting Tool' and 'Inputs Verifier SANDBOX'. Below the header are navigation tabs for 'HOME' and 'DATA REPORTING'. A user greeting 'Hello, G Potemkin | My Profile | Logout' is visible. On the left, there is a sidebar with 'e-GGRT Help' and 'About e-GGRT Home'. The main content area is titled 'ACCESS YOUR FACILITIES:' and contains a table with the following data:

GHGRP ID	Facility or Supplier	Your Role
516274	Test Facility 87	DR

On the right side, there is an 'e-GGRT Announcements' section with the text: 'Created on September 24, 2014', 'Sandbox Testing, Wave 1', and 'Subparts will be released to the IVT Sandbox on a rolling basis. See the Schedule for information about when each subpart will be available for testing.'

6. The HOME tab will be displayed, listing the test facility assigned to your account by the IVT Sandbox. Click the **DATA REPORTING** tab to enter data for this facility.

# Setting Up Your Facility

1. After clicking the DATA REPORTING tab, the Select Facility page will be displayed.

The screenshot displays the e-GGRT Inputs Verifier SANDBOX interface. The header includes the EPA logo and the text "United States Environmental Protection Agency". The navigation bar shows "HOME" and "DATA REPORTING" tabs. The user is logged in as "G Potemkin". The main content area is titled "e-GGRT Greenhouse Gas Data Reporting (2014)" and "Select Facility". It contains instructions for annual GHG data reporting and a table of facilities reporting for 2014.

**ANNUAL GHG DATA REPORTING**  
You must select a facility to begin using any Data Reporting features, which include: Specifying which subparts the facility will be reporting, entering or updating corporate parent information (subpart A), entering GHG data and viewing validation reports, and lastly, preparing and submitting the Annual Report to EPA.

**REPORTING YEAR**  
2014

**FACILITIES REPORTING for 2014**

GHGRP ID	Facility or Supplier	Annual Report Status	Facility Overview
516274	Test Facility 87 (Anytown, AL)	Not generated	<input type="button" value="OPEN"/>

Note: In the IVT Sandbox, data entry is limited to your assigned test facility and to reporting year 2014. On the Select Facility page, the REPORTING YEAR dropdown list will contain only "2014".

# Setting Up Your Facility (continued)

2. Click the **OPEN** button to the right of your assigned facility.

The screenshot shows the EPA e-GGRT Inputs Verifier SANDBOX interface. The header includes the EPA logo and the text 'United States Environmental Protection Agency'. The navigation menu has 'HOME' and 'DATA REPORTING' tabs. The main content area is titled 'e-GGRT Greenhouse Gas Data Reporting (2014)' and includes a 'Select Facility' section. A 'REPORTING YEAR' dropdown is set to '2014' with a 'GO' button. Below this is a table of facilities reporting for 2014. The 'OPEN' button for the facility 'Test Facility 87 (Anytown, AL)' is highlighted with a red box.

**e-GGRT Greenhouse Gas Data Reporting (2014)**  
Select Facility

**ANNUAL GHG DATA REPORTING**  
You must select a facility to begin using any Data Reporting features, which include: Specifying which subparts the facility will be reporting, entering or updating corporate parent information (subpart A), entering GHG data and viewing validation reports, and lastly, preparing and submitting the Annual Report to EPA.

REPORTING YEAR  
2014 GO

**FACILITIES REPORTING for 2014**

GHGRP ID	Facility or Supplier	Annual Report Status	Facility Overview
516274	Test Facility 87 (Anytown, AL)	Not generated	<b>OPEN</b>

**FACILITIES NOT REPORTING for 2014**

GHGRP ID	Facility or Supplier	Not Reporting Reason
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# Setting Up Your Facility (continued)

Test Facility 87

No Inputs Verifier file exists

## e-GGRT Greenhouse Gas Data Reporting (2014)

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).

CO<sub>2</sub> equivalent emissions from facility subparts C-II, SS, and TT (metric tons)

Biogenic CO<sub>2</sub> emissions from facility subparts C-II, SS, and TT (metric tons)

CO<sub>2</sub> equivalent emissions from supplier subparts LL-QQ (metric tons)

[VIEW GHG DETAILS](#)

3. To add a Subpart to your facility, click **ADD** or **REMOVE** Subparts.

### FACILITY'S INPUTS VERIFIER FILE

[What is the Inputs Verifier File?](#)

No inputs verifier file exists

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

### REPORT DATA

2014 Reporting Source or Supplier Category	Validation Messages?	Subpart Reporting
Subpart A—General Information	<a href="#">View Messages</a>	<a href="#">OPEN</a>
<a href="#">+ ADD or REMOVE Subparts</a>		

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	
					<a href="#">GENERATE / RESUBMIT</a>

# Setting Up Your Facility (continued)

4. On the Subpart Selection page, select the checkbox next the subparts you would like to test, then click **SAVE**.

The screenshot shows a web interface for 'Test Facility 87' titled 'e-GGRT Greenhouse Gas Data Reporting (2014)'. The breadcrumb trail is 'Select Facility > Facility Overview > Subpart Selection'. A grey box contains instructions: 'SUBPART SELECTION: To explore the functionality of the Input Verification Tool, please select a subpart. Subparts will be released to the IVT Sandbox on a rolling basis. See the Schedule for information about when each subpart will be available for testing.' Below this are two columns of subpart selection options. The left column, 'FACILITY SUBPARTS', lists: B—Adipic Acid Production, F—Aluminum Production, C—Ammonia Manufacturing, H—Cement Production, K—Petroleum Production, N—Glass Production, and BB—Lithium Oxide Production. The right column, 'GENERAL STATIONARY FUEL COMBUSTION', lists: G—General Stationary Fuel Combustion (Standard Reporting). Each subpart has a checkbox and a 'Description (SHOW/HIDE)' link. At the bottom are 'CANCEL' and 'SAVE' buttons.

Note: As of October, 27, you will be able to select Subparts C, G, H, K, N, P, Q, S, U, X, Z, AA, BB, CC, EE, and GG. On November 17, you will also be able to select Subparts E, F, O, R, V, and Y.

# Using IVT – Subpart S Example

In this example, we have selected Subpart S (Lime Production).

1. On the Facility Overview page, click **OPEN** for Subpart S.

**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](#))

**FACILITY'S INPUTS VERIFIER FILE**

**No inputs verifier file exists** Instructions: No ent abl con e-GGRT will not save or store equation inputs data! For more information use the "What is the Inputs Verifier File?" link provided.

**REPORT DATA**

2014 Reporting Source or Supplier Category	Validation Messages?	Subpart Reporting
Subpart A—General Information	None	<a href="#">OPEN</a>
Subpart S—Lime Production	Cannot Submit-View Critical Errors	<a href="#">OPEN</a>

[ADD or REMOVE Subparts](#)

Note: Initially, e-GGRT will indicate that “No inputs verifier file exists”. Once we enter equation inputs, we will demonstrate how to save and reload an inputs file.



# Using IVT – Subpart S Example (continued)

2. Prior to entering data, you must indicate if you are using the CEMs or Non-CEMs methodology.

Test Facility 87  
**Subpart S: Lime Manufacturing (2014)**  
Subpart Overview

**OVERVIEW OF SUBPART REPORTING REQUIREMENTS**  
Subpart S requires affected facilities to report greenhouse gas (GHG) emissions from all lime kilns combined. Use this page to identify your facility's calculation methodology. If all lime kilns meet the conditions specified in §98.33(b)(4)(ii) or (b)(4)(iii), you must calculate and report under this subpart the combined process and combustion CO<sub>2</sub> emissions by operating and maintaining a Continuous Emissions Monitoring System (CEMS) to measure CO<sub>2</sub> emissions. For additional information about Subpart S reporting, please use the e-GGRT Help link(s) provided.

\* denotes a field required to advance within e-GGRT

Methodology \*


- Select
- Emissions not calculated using CEMS
- Emissions calculated using CEMS

Note: Only the facilities that do not use the CEMs methodology must enter inputs into IVT.

# Using IVT – Subpart S Example (continued)

3. On the Subpart S Overview page, you must enter you Lime Products, Calcined-Lime By-Products, and/or Wastes before you can complete the inputs page.

**OVERVIEW OF SUBPART REPORTING REQUIREMENTS**  
Subpart S requires affected facilities to report carbon dioxide (CO<sub>2</sub>) process emissions from all lime kilns combined; CO<sub>2</sub> combustion emissions from lime kilns; nitrous oxide (N<sub>2</sub>O) and methane (CH<sub>4</sub>) emissions from fuel combustion at each kiln; and CO<sub>2</sub>, N<sub>2</sub>O and CH<sub>4</sub> emissions from any other stationary combustion units. First, use this page to identify each lime product produced at your facility and then enter Greenhouse gas (GHG) data required by Subpart S for each lime product and for your facility. Next, identify each calcined-lime byproduct or waste type generated at your facility and then enter GHG data required by Subpart S for each calcined-lime byproduct or waste type and for your facility. For additional information about Subpart S reporting, please use the e-GGRT Help link(s) provided.

 [Subpart S: View Validation](#)

Methodology: Emissions not calculated using CEMS ([Change Methodology](#))

**SUBPART S SUMMARY INFORMATION FOR THIS FACILITY**

Lime Production Capacity (tons)	CO <sub>2</sub> used on-site	CO <sub>2</sub> Process Emissions	
			<a href="#">OPEN</a>

**LIME PRODUCTS**

Lime Product Name
<a href="#">+ ADD a Lime Product</a>

**CALCINED-LIME BY-PRODUCTS OR WASTE**

Calcined-Lime By-Product or Waste Name	Sold or Not Sold	Status	Delete
<a href="#">+ ADD a Calcined Lime By-Product or Waste</a>			

[↑ Facility Overview](#) [SAVE](#)

<sup>1</sup> 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).

Note: If you do not enter products, by-products or waste, e-GGRT will remind you to enter this pre-requisite data before you can open IVT.

# Using IVT – Subpart S Example (continued)

4. Most pages addressing reporting requirements other than inputs have not changed significantly.

Subpart Overview » Lime Product » Lime Product 1

**LIME PRODUCT INFORMATION**  
Use this page to provide monthly information for this lime product. For additional information about entering information for lime products produced at your facility, please use the e-GGRT Help link(s) provided.

Lime Product	Lime Product 1
Beginning of year inventory	<input type="text" value="3800"/> (short tons)
End of year inventory	<input type="text" value="4600"/> (short tons)
Annual quantity of lime product sold	<input type="text" value="34000"/> (short tons)

JANUARY

Method used to determine the quantity of Lime Product 1 produced:  [Make all months same](#)

Is the quantity of lime product produced based on substitute data?

Method used to determine the quantity of Lime Product 1 sold:  [Make all months same](#)

Is the quantity of lime product sold based on substitute data?

Standard method used to determine CaO content:  [Make all months same](#)


Standard method used to determine MgO content:

Is the MgO content based on substitute data?



# Using IVT – Subpart S Example (continued)

5. After entering the products and by-products, click the **OPEN** button for Subpart S Summary Information.

**SUBPART S SUMMARY INFORMATION FOR THIS FACILITY**


Lime Production Capacity (tons)	CO <sub>2</sub> used on-site	CO <sub>2</sub> Process Emissions	
			 <b>OPEN</b>

**LIME PRODUCTS**

Lime Product Name	Status <sup>1</sup>		Delete
 Lime Product 1	Incomplete	<b>OPEN</b>	✖
 Lime Product 2	Incomplete	<b>OPEN</b>	✖

[+ ADD a Lime Product](#)

**CALCINED-LIME BY-PRODUCTS OR WASTE**

Calcined-Lime By-Product or Waste Name	Sold or Not Sold	Status <sup>1</sup>		Delete
 Lime Waste 1	Not Sold	Incomplete	<b>OPEN</b>	✖

[+ ADD a Calcined Lime By-Product or Waste](#)

[↑ Facility Overview](#)

<sup>1</sup>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).

# Using IVT – Subpart S Example (continued)

6. On the page where you would have entered emission information in past years, you now click **GO** to access IVT.

### Subpart S: Lime Manufacturing (2014)

[Subpart Overview](#) » [Subpart S Summary Information](#)

**EQ. S-4: FACILITY-LEVEL CO<sub>2</sub> PROCESS EMISSIONS AND ADDITIONAL EMISSIONS INFORMATION**

Subpart S requires a facility to report the facility and emissions information described below. For additional information about the facility information required by Subpart S, please use the e-GGRT Help link(s) provided.

(Eq. S-4) Annual CO<sub>2</sub> process emissions from lime production from all kilns (metric tons/year).

**FACILITY'S INPUTS VERIFIER FILE** [What is the Inputs Verifier File?](#)

**No inputs verifier file exists**

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

**EQUATION S-4 SUMMARY AND RESULT**

$$E_{CO_2} = \sum_{i=1}^t \sum_{n=1}^{12} (EF_{lime,i,n} \times M_{lime,i,n}) + \sum_{i=1}^b \sum_{n=1}^{12} (EF_{lkd,i,n} \times M_{lkd,i,n}) + \sum_{i=1}^z E_{waste,i}$$

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

Annual CO<sub>2</sub> process emissions from lime production from all kilns  (metric tons)

Use Inputs Verifier to calculate **GO**

**ADDITIONAL EMISSIONS DATA**

Annual lime production capacity for the entire facility  (short tons)

Was CO<sub>2</sub> used on site?  Yes  No

**CANCEL** **SAVE**

# Using IVT – Subpart S Example (continued)

7a: IVT pages lead the user through entry of inputs. In this case, inputs are required for each month for each product and by-product.

United States Environmental Protection Agency

e-GGRT  
Inputs Verifier Tool **SANDBOX**

Hello, G Poterkin | My Profile | Logout

Test Facility 87  
**Subpart S: Lime Manufacturing (2014)**  
Subpart Overview » Subpart S Summary Information » Equation S-1 Inputs

**EQUATION S-1 PRODUCT INPUTS**  
Use this page to enter the inputs to equation S-1. The inputs to equations will be used for verification purposes only, and will not be stored by EPA. The results of the verification checks (the verification summary, viewable from the "Subpart Overview" page) will be stored by EPA.

EQUATION INPUTS (1 OF 3)

Product or By-Product Name (type) **Lime Product 1 (product)**  all inputs entered  
Lime Product 2 (product)  
Lime Waste 1 (by-product not sold)

**NEXT** | Finished entering inputs

Equation S-1:  $EF_{LIME,IN} = \left[ (SR_{CaO} \times CaO_{IN}) + (SR_{MgO} \times MgO_{IN}) \right] \cdot \frac{2000}{2205}$

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

**JANUARY**

Calcium oxide content, determined according to §98.194(c)  (metric ton CaO/metric ton lime) Make all months same  
will not be stored by EPA

Magnesium oxide content, determined according to §98.194(c)  (metric ton MgO/metric ton lime) Make all months same  
will not be stored by EPA

Emission factor for lime type (calculated input to Equation S-4) 0.6762 (metric tons CO2/ton lime)

Weight or mass of lime type produced (input to Equation S-4)  (tons) Make all months same  
will not be stored by EPA

**FEBRUARY**

Emission factor for lime type (calculated input to Equation S-4) 0.6762 (metric tons CO2/ton lime)


Weight or mass of lime type produced (input to Equation S-4)  (tons)  
will not be stored by EPA

**CANCEL** **SAVE**

Note: IVT appear with a grey IVT header and IVT inputs cells are outlined in blue

# Using IVT – Subpart S Example (continued)

7b: Enter inputs for the second product.

 United States Environmental Protection Agency

**e-GGRT**  
**Inputs Verifier Tool** **SANDBOX**

Hello, G Potemkin | My Profile | Logout

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Test Facility 87  
**Subpart S: Lime Manufacturing (2014)**  
[Subpart Overview](#) » [Subpart S Summary Information](#) » [Equation S-1 Inputs](#)

**EQUATION S-1 PRODUCT INPUTS**  
Use this page to enter the inputs to equation S-1. The inputs to equations will be used for verification purposes only, and will not be stored by EPA. The results of the verification checks (the verification summary, viewable from the "Subpart Overview" page) will be stored by EPA.

EQUATION INPUTS (2 OF 3)

Product or By-Product Name (type)  Lime Product 1 (product)  all inputs entered  
 Lime Product 2 (product)  all inputs entered  
 Lime Waste 1 (by-product not sold)

[← PREV](#) [NEXT →](#) | Finished entering inputs

Equation S-1: 
$$EF_{LIME,ln} = [(SR_{CaO} \times CaO_{ln}) + (SR_{MgO} \times MgO_{ln})] \times \frac{2000}{2205}$$

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

JANUARY

Calcium oxide content, determined according to §98.194(c)	0.63	(metric ton CaO/metric ton lime) <a href="#">Make all months same</a>
will not be stored by EPA		
Magnesium oxide content, determined according to §98.194(c)	0.24	(metric ton MgO/metric ton lime) <a href="#">Make all months same</a>
will not be stored by EPA		
Emission factor for lime type (calculated input to Equation S-4)	0.6861	(metric tons CO2/ton lime)
Weight or mass of lime type produced (input to Equation S-4)	3000	(tons) <a href="#">Make all months same</a>
will not be stored by EPA		

---

Calcium oxide content, determined according to §98.194(c)	0.63	(metric ton CaO/metric ton lime) <a href="#">Make all months same</a>
will not be stored by EPA		
Magnesium oxide content, determined according to §98.194(c)	0.24	(metric ton MgO/metric ton lime) <a href="#">Make all months same</a>
will not be stored by EPA		
Emission factor for lime type (calculated input to Equation S-4)	0.6861	(metric tons CO2/ton lime)
Weight or mass of lime type produced (input to Equation S-4)	3000	(tons)
will not be stored by EPA		

[CANCEL](#) [SAVE](#)

# Using IVT – Subpart S Example (continued)

7c: Enter by-product inputs and click **SAVE**.

United States Environmental Protection Agency

e-GGRT  
Inputs Verifier Tool **SANDBOX**

Hello, G Potemkin | My Profile | Logout

Test Facility 87  
**Subpart S: Lime Manufacturing (2014)**  
[Subpart Overview](#) » [Subpart S Summary Information](#) » [Equation S-3 Inputs](#)

**EQUATION S-3 BY-PRODUCT INPUTS**  
Use this page to enter the inputs to equation S-3. The inputs to equations will be used for verification purposes only, and will not be stored by EPA. The results of the verification checks (the verification summary, viewable from the "Subpart Overview" page) will be stored by EPA.

EQUATION INPUTS (3 OF 3)

Product or By-Product Name (type) ▶ Lime Product 1 (product)  all inputs entered  
▶ Lime Product 2 (product)  all inputs entered  
▶ Lime Waste 1 (by-product not sold)  all inputs entered

←PREV | Finished entering inputs

Equation S-3:  $E_{waste,i} = [ (SR_{CaO} \times CaO_{waste,i}) + (SR_{MgO} \times MgO_{waste,i}) ] * M_{waste,i} * \frac{2000}{2205}$

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

Calcium oxide content for calcined lime byproduct or waste type that is not sold	<input type="text" value="0.56"/>	(metric ton CaO/metric ton lime)
<small>will not be stored by EPA</small>		
Magnesium oxide content for calcined lime byproduct or waste type that is not sold	<input type="text" value="0.18"/>	(metric ton MgO/metric ton lime)
<small>will not be stored by EPA</small>		
Annual weight or mass of calcined byproducts or wastes for lime type that is not sold	<input type="text" value="30000"/>	(tons)
<small>will not be stored by EPA</small>		

CANCEL **SAVE**



# Using IVT – Subpart S Example (continued)


## 8: Review your calculation results

EQUATION S-4 SUMMARY AND RESULT

$$E_{CO_2} = \sum_{i=1}^t \sum_{n=1}^{12} (EF_{lime,i,n} \times M_{lime,i,n}) + \sum_{i=1}^b \sum_{n=1}^{12} (EF_{kld,i,n} \times M_{kld,i,n}) + \sum_{i=1}^z E_{waste,i}$$

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

Annual CO<sub>2</sub> process emissions from lime production from all kilns  (metric tons)

Enter/Report Alternate Result  

ADDITIONAL EMISSIONS DATA

Annual lime production capacity for the entire facility  (short tons)

Was CO<sub>2</sub> used on site?  Yes  No

Note: If you disagree with the calculated value you can override and enter your own value

# Saving an Inputs File

After entering data into the Inputs Verifier Tool, you will have to save your inputs file to your computer or other location. On each subsequent log in, you will be prompted to temporarily upload your inputs file. **The e-GGRT system will not save data entered into the Inputs Verifier Tool.** Users are responsible for saving their inputs files.

FACILITY'S INPUTS VERIFIER FILE

[What is the Inputs Verifier File?](#)

**Inputs Data Not Saved**

[Save Inputs Data Locally](#)

A file has not yet been saved for this facility. Be sure to use the "Save Inputs Data Locally" link to save a copy of your equation inputs data before you log off as e-GGRT will not save or store equation inputs data!

The Inputs Verifier File Status Box shows whether you have saved your inputs file. Before entering inputs, the status reads "No inputs verifier file exists". After data entry, the status updates to "Inputs Data Not Saved."

# Saving an Inputs File (continued)

1. You can find the Inputs File Status Box near the top of most screens under the grey panel. To save the inputs verifier file, click **SAVE INPUTS LOCALLY**.

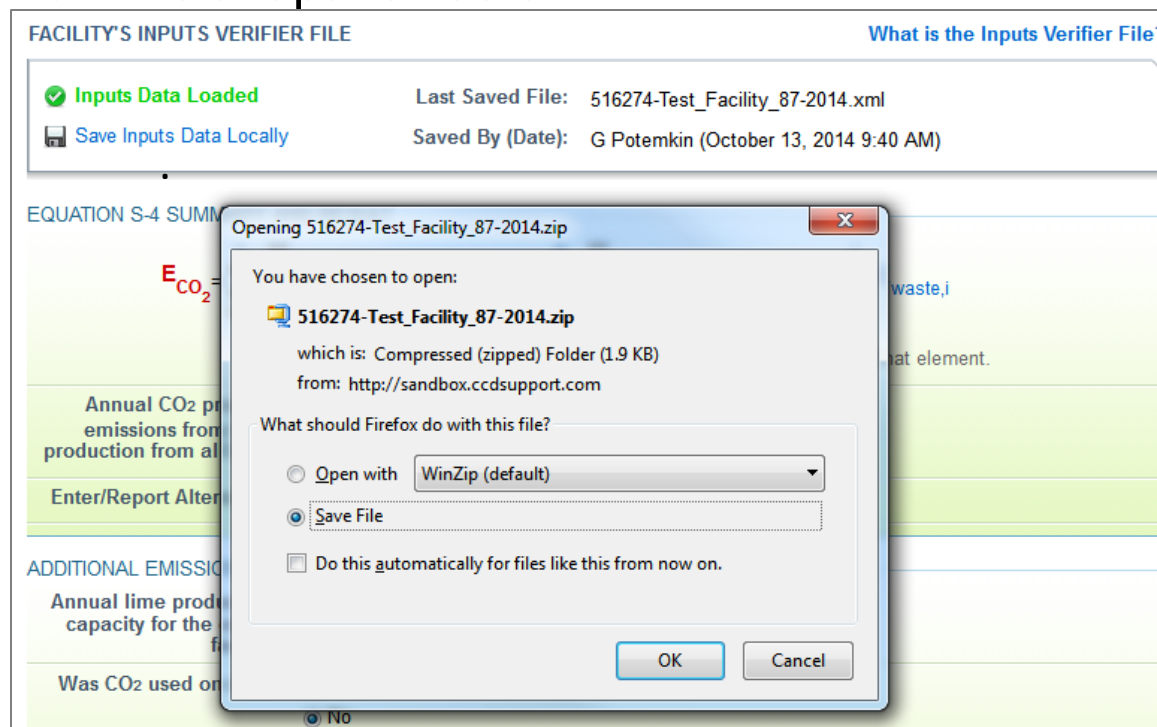
The screenshot displays the EPA e-GGRT Inputs Verifier Sandbox interface. At the top, the EPA logo and "United States Environmental Protection Agency" are on the left, and the "e-GGRT Electronic Greenhouse Gas Reporting Tool" and "Inputs Verifier SANDBOX" logo are on the right. A navigation bar includes "HOME" and "DATA REPORTING" tabs, and a user greeting "Hello, G Potemkin | My Profile | Logout".

The main content area is titled "Test Facility 87" and "Subpart S: Lime Manufacturing (2014)". It includes a "Subpart Overview" link and a "Subpart S Summary Information" link. A section titled "EQ. S-4: FACILITY-LEVEL CO<sub>2</sub> PROCESS EMISSIONS AND ADDITIONAL EMISSIONS INFORMATION" explains that Subpart S requires reporting facility and emissions information. To the right, a calculator icon and a text box show the value "82,580.5" for "(Eq. S-4) Annual CO<sub>2</sub> process emissions from lime production from all kilns (metric tons/year)".

Below this, a section titled "FACILITY'S INPUTS VERIFIER FILE" contains a warning box: "Inputs Data Not Saved". The warning states: "A file has not yet been saved for this facility. Be sure to use the 'Save Inputs Data Locally' link to save a copy of your equation inputs data before you log off as e-GGRT will not save or store equation inputs data!". A "Save Inputs Data Locally" button is provided at the bottom of the warning box. A link "What is the Inputs Verifier File?" is also present.

# Saving an Inputs File (continued)

2. Proceed to save the inputs file to a location of your choosing. Note that all browsers work a little differently so your screen may look different than the snapshot below.



The inputs verifier file is a zip file containing an XML file and an HTML file. These two files have identical data, but the HTML file is easier to read

# Saving an Inputs File (continued)

3. After saving, the status will update to **Inputs Data Loaded** and display the date and time the file was saved and the user who saved the file.



The screenshot shows a web interface titled "FACILITY'S INPUTS VERIFIER FILE". On the left, there is a green checkmark icon next to the text "Inputs Data Loaded", which is highlighted with a red rectangular box. Below this is a link that says "Save Inputs Data Locally" with a small folder icon. On the right side, there are two lines of text: "Last Saved File: 516274-Test\_Facility\_87-2014.xml" and "Saved By (Date): G Potemkin (October 13, 2014 9:40 AM)". Two red arrows point from the right towards the file name and the user/date information. In the top right corner of the interface, there is a link that says "What is the Inputs Verifier File?".

**Note: e-GGRT will not have a record of where you decide to save your file. Your browser may default to a temporary storage area or a downloads folder. Please take note of your save location or move the saved file to a recordkeeping folder.**

# Uploading an Inputs File

To load an inputs data file that has been previously saved (as would occur if you logged off and came back to e-GGRT in a later session), follow these steps:

1. Log in to IVT sandbox and go to the Data Reporting section.
2. Select **TEMPORARILY LOAD INPUTS DATA**.

Test Facility 87

**e-GGRT Greenhouse Gas Data Reporting (2014)**

[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).

**Inputs Verifier file: not loaded** ?

**82,580.5**  
CO<sub>2</sub> equivalent emissions from facility subparts C-II, SS, and TT (metric tons)

**0.0**  
Biogenic CO<sub>2</sub> emissions from facility subparts C-II, SS, and TT (metric tons)

**0.0**  
CO<sub>2</sub> equivalent emissions from supplier subparts LL-QQ (metric tons)

[VIEW GHG DETAILS](#)

**FACILITY'S INPUTS VERIFIER FILE** [What is the Inputs Verifier File?](#)

**Inputs Data Not Loaded**

[Temporarily Load Inputs Data](#)

Last Saved File: 516274-Test\_Facility\_87-2014.xml  
Saved By (Date): G Potemkin (October 13, 2014 9:41 AM)

# Uploading an Inputs File (continued)

3. Select **BROWSE** and navigate to the inputs data file saved to your local computer.

**Temporarily load Inputs Verifier data**








Last Saved File: 516274-Test\_Facility\_87-2014.xml  
Saved By (Date): G Potemkin (October 13, 2014 9:41 AM)

To proceed, locate the Last Saved File above with the Browse (or Choose File) field below and click LOAD.

No file selected.

# Uploading an Inputs File (continued)

4. Click the **OPEN** button to select the most recent inputs verifier tool file

Name	Date	Type	Size	Tags
 516274-Test_Facility_87-2014(1).zip	10/13/2014 5:41 AM	WinZip File	2 KB	
 516274-Test_Facility_87-2014.zip	10/13/2014 5:20 AM	WinZip File	2 KB	
 data flow3.png	9/24/2014 4:36 PM	PNG image	34 KB	
 data flow3.pptx	9/24/2014 4:36 PM	Microsoft PowerP...	49 KB	
 Inputs Verifier Tool (IVT) Sandbox_v1 10102014.pptx	10/10/2014 3:26 PM	Microsoft PowerP...	2,185 KB	
 workflow3.png	9/24/2014 4:31 PM	PNG image	34 KB	
 workflow3.vsd	9/24/2014 4:30 PM	Microsoft Visio 20...	66 KB	



# Uploading an Inputs File (continued)

5. Click the **LOAD** button to load the file to the inputs verifier tool.

**Temporarily load Inputs Verifier data**

Last Saved File: 516274-Test\_Facility\_87-2014.xml  
Saved By (Date): G Potemkin (October 13, 2014 9:41 AM)

To proceed, locate the Last Saved File above with the Browse (or Choose File) field below and click LOAD.

516274-Test\_Facility\_87-2014(1).zip

When you click the **GO** button to enter IVT, the inputs you just loaded will display in the proper fields in the inputs verifier screens. You can modify inputs to equations data elements and continue entering them.

# Uploading an Inputs File (continued)

If you select an inputs file that is not the most recently saved version you will get an error message when you click the **Load** button.

**Temporarily load Inputs Verifier data**

Last Saved File: 516274-Test\_Facility\_87-2014.xml  
Saved By (Date): G Potemkin (October 13, 2014 9:58 AM)

To proceed, locate the Last Saved File above with the Browse (or Choose File) field below and click LOAD.

**LOAD ERRORS**  
The file being loaded is different than the one last saved. In order to avoid the loss of the most recent data entered for your facility, e-GGRT only allows you to load the most recent file.

516274-Test\_Facility\_87-2014.zip

If you are unable to find your inputs file you may have to reset your facility and re-enter your inputs. To avoid this outcome we urge users to consistently save their data to a known location on the local machine.

# Verification Checks Conducted by IVT

IVT conducts the following verification checks on data entered into IVT:

- Screen Error - an input is missing, or an input is entered that does not match the field requirements (i.e., a whole number is entered in a field that should be a fraction). Screen errors must be corrected before you can advance to the next page.
- Range Check (data quality) - an input value is outside of the expected range estimated by the EPA.
- Algorithm (data quality) - two or more values are compared to each other, and the result is not what would be expected by the EPA.

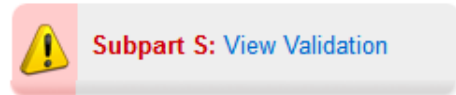
# Viewing the Inputs Verification Summary

(continued)

The Inputs Verification Tool presents the results of these verification checks on the Inputs Verification Summary. To view the Inputs Verification Summary, Click the Subpart Overview link at the top of the screen. On the Subpart Overview page, click **VIEW VALIDATION**.

## OVERVIEW OF SUBPART REPORTING REQUIREMENTS

Subpart S requires affected facilities to report carbon dioxide (CO<sub>2</sub>) process emissions from all lime kilns combined; CO<sub>2</sub> combustion emissions from lime kilns; nitrous oxide (N<sub>2</sub>O) and methane (CH<sub>4</sub>) emissions from fuel combustion at each kiln; and CO<sub>2</sub>, N<sub>2</sub>O and CH<sub>4</sub> emissions from any other stationary combustion units. First, use this page to identify each lime product produced at your facility and then enter Greenhouse gas (GHG) data required by Subpart S for each lime product and for your facility. Next, identify each calcined-lime byproduct or waste type generated at your facility and then enter GHG data required by Subpart S for each calcined-lime byproduct or waste type and for your facility. For additional information about Subpart S reporting, please use the e-GGRT Help link(s) provided.



Or, if all data entered has satisfied the defined verification checks, this section will have a green checkmark and the label “No Validation Messages”.

# Viewing the Inputs Verification Summary (continued)

The Validation Report page will display. It has two sections: “Validation Messages for Annual Report Data” and “Verification Summary Generated by Inputs Verifier”.

**FACILITY VALIDATION MESSAGES**


Validation Type <sup>1</sup>	ID <sup>2</sup>	Facility Name	Message <sup>3</sup>
No facility validation messages found.			

**LIME PRODUCT VALIDATION MESSAGES**

Validation Type <sup>1</sup>	ID <sup>2</sup>	Lime Product Name	Message <sup>3</sup>
No lime product validation messages found.			

**CALCINED-LIME BY-PRODUCT VALIDATION MESSAGES**

Validation Type <sup>1</sup>	ID <sup>2</sup>	Calcined-Lime By-Product Name	Message <sup>3</sup>
No calcined-lime by-product validation messages found.			



**Verification Summary Generated by Inputs Verifier**

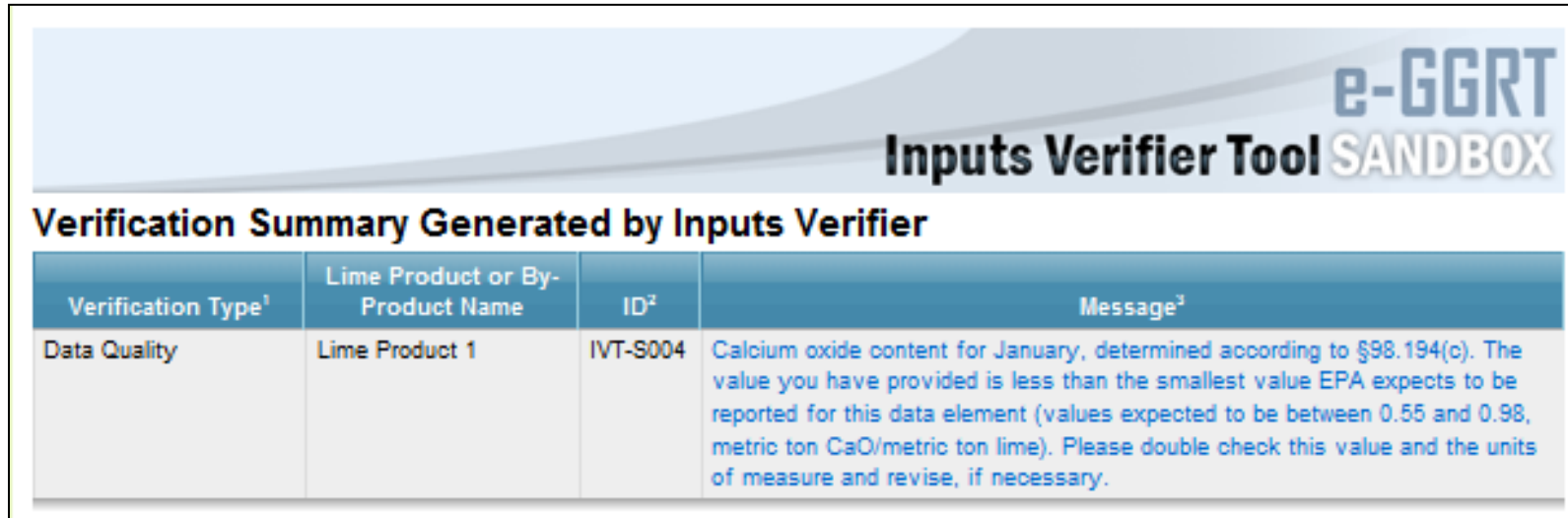
Verification Type <sup>1</sup>	Lime Product or By-Product Name	ID <sup>2</sup>	Message <sup>3</sup>
Data Quality	Lime Product 1	IVT-S004	Calcium oxide content for January, determined according to §98.194(c). The value you have provided is less than the smallest value EPA expects to be reported for this data element (values expected to be between 0.55 and 0.98, metric ton CaO/metric ton lime). Please double check this value and the units of measure and revise, if necessary.
Data Quality	Lime Product 1	IVT-S011	Emission factor for lime type for January. The value that is calculated is less than the smallest value EPA expects to be reported for this data element (values expected to be between 0.5 and 0.88, metric tons CO2/ton lime). Please double check this value and revise, if necessary.
Data Quality	Lime Product 1	IVT-S036	Weight or mass of lime type produced in January. The value you have provided is more than the largest value EPA expects to be reported for this data element (values expected to be between 375 and 53,300, tons). Please double check this value and the units of measure and revise, if necessary.

[← Subpart Overview](#)

# Viewing the Inputs Verification Summary

(continued)

In each section, the Message text is linked to the related field. To view and correct the data, click on the text for the associated message. The data entry page containing the field will be displayed. In the example shown, clicking the Message for ID IVT-S004 will cause the Equation S-1 page within IVT to be displayed.



The screenshot displays the 'e-GGRT Inputs Verifier Tool SANDBOX' interface. Below the header, the text 'Verification Summary Generated by Inputs Verifier' is shown. A table with four columns is presented: 'Verification Type<sup>1</sup>', 'Lime Product or By-Product Name', 'ID<sup>2</sup>', and 'Message<sup>3</sup>'. The table contains one data row with the following information:



Verification Type <sup>1</sup>	Lime Product or By-Product Name	ID <sup>2</sup>	Message <sup>3</sup>
Data Quality	Lime Product 1	IVT-S004	Calcium oxide content for January, determined according to §98.194(c). The value you have provided is less than the smallest value EPA expects to be reported for this data element (values expected to be between 0.55 and 0.98, metric ton CaO/metric ton lime). Please double check this value and the units of measure and revise, if necessary.

# Submitting using the Sandbox

The sandbox will allow you to generate and preview your submission materials, but will not allow you to actually submit data.


1. To review these features, start by clicking the **GENERATE/SUBMIT** button on the facility overview page.

FACILITY'S INPUTS VERIFIER FILE [What is the Inputs Verifier File?](#)

 **Inputs Data Loaded** Last Saved File: 516274-Test\_Facility\_87-2014.xml  
 [Save Inputs Data Locally](#) Saved By (Date): G Potemkin (October 13, 2014 11:13 AM)


REPORT DATA

2014 Reporting Source or Supplier Category	Validation Messages?	Subpart Reporting
Subpart A—General Information	<a href="#">View Messages</a>	<a href="#">OPEN</a>
Subpart S—Lime Production	<a href="#">View Messages</a>	<a href="#">OPEN</a>

 [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.

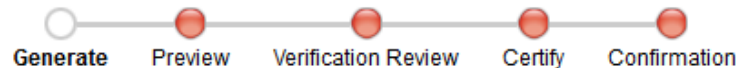
SUBMIT ANNUAL REPORT

Report	Uploaded File Name	Status	Submitted Date	Certification Date	
2014 Annual Report v1		Ready for review	10/13/2014 10:55 AM		<a href="#">GENERATE / SUBMIT</a> 

# Submitting using the Sandbox

(continued)

2. Click **GENERATE REPORT AND FINAL VERIFICATION SUMMARY** to begin.



Test Facility 87

## e-GGRT Greenhouse Gas Annual Report Submission (2014)

[Select Facility](#) » [Facility Overview](#) » [Generate](#)

### REPORT GENERATION AND SUBMISSION

Use this page to generate your Annual Report then you may review your Annual Report submission and your Verification Summary as well as download records. On the following pages, you can comment on verification messages generated by IVT and then initiate the electronic submission and certification process.

Report	Status	Last Generated
2014 Annual Report	Not generated	

### GENERATE REPORT AND VERIFICATION SUMMARY

Generating the Annual Report and its associated Verification Summary may take from 1 to 10 minutes depending upon the volume of data.

Once your facility has generated an Annual Report and Verification Summary, 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 or Verification Summary until you return to this page and generate the report again using the button below. The "Last Generated" timestamp above reflects the last time your Annual Report and Verification Summary were generated.

**GENERATE REPORT AND FINAL VERIFICATION SUMMARY**



# Submitting using the Sandbox

(continued)

## 3. After the report generates, click **CONTINUE WITH REPORT SUBMISSION**.

### e-GGRT Greenhouse Gas Annual Report Submission (2014)

[Select Facility](#) » [Facility Overview](#) » [Generate](#)

#### REPORT GENERATION AND SUBMISSION

Use this page to generate your Annual Report then you may review your Annual Report submission and your Verification Summary as well as download records. On the following pages, you can comment on verification messages generated by IVT and then initiate the electronic submission and certification process.

Report	Status	Last Generated
2014 Annual Report v1	Ready for review	10/24/2014 1:59:20 PM

#### GENERATE REPORT AND VERIFICATION SUMMARY


Generating the Annual Report and its associated Verification Summary may take from 1 to 10 minutes depending upon the volume of data.

Once your facility has generated an Annual Report and Verification Summary, 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 or Verification Summary until you return to this page and generate the report again using the button below. The "Last Generated" timestamp above reflects the last time your Annual Report and Verification Summary were generated.

**REGENERATE**

or

**Continue with Report Submission** →

 **The Annual Report and Verification Summary have already been generated.** Click the REGENERATE button above to regenerate the report to reflect changes that have been made to the reported data. Or, click the Continue with Report Submission button to proceed to the next step.

# Submitting using the Sandbox

(continued)

4. Review your annual report, verification summary, and download records from this page. Click **VERIFICATION REVIEW** to continue.

Remember: The rule states that the inputs to equations that were entered into IVT must be kept as a record.

Generate Preview Verification Review Certify Confirmation

Test Facility 87  
**e-GGRT Greenhouse Gas Annual Report Submission (2014)**  
Select Facility » Facility Overview » **Preview/Submit**

**REPORT GENERATION AND SUBMISSION**  
Use this page to generate your Annual Report then you may review your Annual Report submission and your Verification Summary as well as download records. On the following pages, you can comment on verification messages generated by IVT and then initiate the electronic submission and certification process.

Report	Status	Last Generated
2014 Annual Report v1	Ready for review	10/24/2014 1:59:20 PM

**REVIEW REPORTS**  
Prior to the submission and certification of your report to EPA, you may review it by using either the Report or XML links.  
Report and XML Links: [REPORT](#) | [XML](#)

**VERIFICATION SUMMARY**  
Use the following links to view the Verification Summary for your annual report. You will be able to comment on verification messages generated by IVT on the following pages.

Subpart	Verification Summary
Subpart S—Lime Production	<a href="#">View Verification Results</a>
Subpart A—General Information	No issues

**DOWNLOAD EQUATION INPUTS FILE FOR RECORDKEEPING**  
EPA requires that you keep a record of the inputs to equations that are not being reported to EPA in the format generated by e-GGRT. Please download the required records here. The e-GGRT system will NOT save a copy of this data after you log out.  
Download Record of Equation Inputs: [HTML](#) | [XML](#) | [ZIP](#)

**GHG REPORT REVIEWED**  
If you have reviewed and are satisfied with your Annual Report you may proceed to review and comment upon IVT verification messages, if any, then proceed to certify and send the report to EPA.  
[Verification Review](#)

# Submitting using the Sandbox

(continued)

5. Prior to certification you will see a listing of all IVT error messages associated with your submission. If you click “Optional Comment to EPA” you can enter any explanatory text.

The screenshot displays a progress bar at the top with five steps: Generate (green checkmark), Preview/Submit (green checkmark), Verification Review (white circle), Certify (red circle), and Confirmation (red circle). Below the progress bar, the text reads "Test Facility 87" and "e-GGRT Greenhouse Gas Annual Report Submission (2014)". A link "Select Facility » Facility Overview » Certify and Send" is visible. A grey box titled "IVT COMMENTS" contains instructions: "You may comment on the errors below by entering your comments in the textarea and clicking the Submit button. If you choose to change data and regenerate your report, your comments will be erased. You will then have opportunity to add comments to any new IVT errors." Below this, a section titled "SUBPART 5 IVT ERROR MESSAGES" lists an error: "Error Code IVT-S004" for "Field calciumOxideContent" in "Unit Name Fuel". The message states: "Message Calcium oxide content for January, determined according to §98.194(c). The value you have provided is less than the smallest value EPA expects to be reported for this data element (values expected to be between 0.55 and 0.98, metric ton CaO/metric ton lime). Please double check this value and the units of measure and revise, if necessary." A red box highlights a link "Optional Comment to EPA" with a plus icon. At the bottom, there are three buttons: "SAVE", "SAVE and CERTIFY", and "CANCEL".

# Help Desk Contact Information

Email: [sandbox@ccdsupport.com](mailto:sandbox@ccdsupport.com)

Web: <http://www.epa.gov/ghgreporting/contactus.html>

Telephone:

1-877-444-1188 (toll free)

1-703-676-4400 (outside U.S.)

As a reminder, please do not submit sensitive or business confidential information to the helpline.