

# Subpart H Entering Equation Inputs Using IVT



e-GGRT  
Inputs Verifier Tool

You will see a block labeled "Use Inputs Verifier to calculate" and a green "GO" button. Click "GO" to open the inputs verifier module.



The screenshot below is from the Subpart H Annual Information - Equation H-5 page and is displayed as an example. The screen for other sections related to the inputs verifier modules within Subpart H may differ slightly.

>> [Click this link to expand](#)



**EPA** United States Environmental Protection Agency

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

HOME FACILITY REGISTRATION FACILITY MANAGEMENT DATA REPORTING

Hello, Matt Foley | My Profile | Logout

**e-GGRT Help**

Using e-GGRT for Subpart H reporting

**Foley Corporation**  
**Subpart H: Cement Production (2014)**  
[Subpart Overview](#) » [GHG Info](#) » [Unit ABC](#)

**GHG DATA AND ASSOCIATED INFORMATION**

Use this page to enter the GHG data required by Subpart H. Please enter the annual, quarterly, and monthly information shown below. For additional information about the data collected on this page, please use the e-GGRT Help link(s) provided.

[Annual Information](#)  
[Quarterly Information](#)  
[Monthly Information](#)

**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 H-5**

$$CO_{2,m} = \sum_{i=1}^m m_i \cdot TOC_{m,i} \cdot \frac{44 \cdot 2000}{12 \cdot 2205}$$

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

Annual CO<sub>2</sub> emissions from raw materials for this kiln (metric tons)

Use Inputs Verifier to calculate **GO**

The Equation H-5 result calculated by IVT is not an annual reporting requirement and will not be included in your annual report. This calculated result will be used in determining your facility's total annual CO<sub>2</sub> process emissions from cement manufacturing (Equation H-1).

**RAW MATERIAL 1**

Number of times missing data procedures were used to determine...

...the monthly quantity of raw material consumed (months)

...the annual organic carbon content of raw material feed

Enter 0 if missing data procedures were not used, 1 if they were.

**FINISHED** **CANCEL** **QUARTERLY INFO**

Paperwork Reduction Act Burden Statement | Contact Us

e-GGRT RY2014.R17 | H(annual)

## Entering Data Using IVT

If you have previously entered these inputs and saved your inputs file locally you should import your locally saved inputs file. If you are having trouble locating your inputs file or would like to "Reset" and recreate your inputs file, please review our help content reviewing these processes at [Reloading Your Inputs Verifier File](#) or [Resetting your Facility To Create a New Inputs Verifier file](#).

Once you enter the Inputs Verifier Tool (IVT) module you will note that these screens are formatted with a grey background and an Inputs Verifier header. Here you are asked to provide emissions inputs to allow the IVT to calculate emissions.



The screenshot below is from Subpart H Annual Information - Equation H-5 Inputs page and is displayed as an example. The screen for other sections related to the inputs verifier modules within Subpart H may differ slightly.

>> [Click this link to expand](#)

**EPA** United States Environmental Protection Agency

**e-GGRT** Inputs Verifier Tool

Foley Corporation  
**Subpart H: Cement Production (2015)**  
[Subpart Overview](#) » [GHG Info](#) » [Unit ABC](#) » [Equation H-5 Inputs](#)

**EQUATION H-5 INPUTS**

Use this page to enter the inputs to Equation H-5 for the selected kiln. 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 verifier summary, viewable from the "Subpart Overview" page, will be stored by EPA.

**EQUATION H-5 (consumption of individual raw material)**

$$CO_{2,m} = \sum_{i=1}^m m_i \cdot TOC_{m,i} \cdot \frac{44 \cdot 2000}{12 \cdot 2205}$$

Inputs entered in this table will not be stored by EPA.

Name	The amount of raw material consumed (metric tons) or dry tons	Organic carbon content of raw material, as determined by ASTM D3172 (default value is 0.080 weight fraction/weight fraction)
Raw material 1	<input type="text"/>	TOC <sub>raw</sub> <input type="text"/>

**SAVE** **CANCEL**

Foley Corporation

## Subpart H: Cement Production (2015)

[Subpart Overview](#) » [GHG Info](#) » [Unit ABC](#) » **Equation H-5 Inputs**

### EQUATION H-5 INPUTS

Use this page to enter the inputs to Equation H-5 for the selected kiln. 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 H-5 (consumption of individual raw materials)

$$CO_{2,m} = \sum_{i=1}^m rm_i \cdot TOC_{rm_i} \cdot \frac{44}{12} \cdot \frac{2000}{2205}$$

**IVT** Inputs entered in this table will not be stored by EPA

Raw Materials	The amount of raw material consumed annually(tons/yr (dry basis))	Organic carbon content of raw material, as determined in Å§98.84(c) (default value is 0.002 weight fraction)(weight fraction)
Raw material 1	rm <input type="text"/>	TOC <sub>rm</sub> <input type="text"/>

**SAVE**

**CANCEL**

Once you have completed all of your inputs, click the SAVE button.

e-GGRT will calculate your emissions and return you to the previous screen (as shown in the example below) where you will save the file locally and load your input data. Refer to the "Saving and Reloading Your Inputs Verifier File" section below for more details.



The screenshot below is from the Subpart H Annual Information - Equation H-5 page and is displayed as an example. The screen for other sections related to the inputs verifier modules within Subpart H may differ slightly.

>> [Click this link to expand](#)



United States  
Environmental Protection  
Agency

e-GGRT  
Electronic Greenhouse Gas  
Reporting Tool

HOME
FACILITY REGISTRATION
FACILITY MANAGEMENT
DATA REPORTING

Hello, Matt Foley | My Profile | Logout

e-GGRT Help

Using e-GGRT for Subpart H reporting

Foley Corporation
Subpart H: Cement Production (2014)

[Subpart Overview](#) » [GHG Info](#) » [Unit ABC](#)

GHG DATA AND ASSOCIATED INFORMATION

Use this page to enter the GHG data required by Subpart H. Please enter the annual, quarterly, and monthly information shown below. For additional information about the data collected on this page, please use the e-GGRT Help link(s) provided.

**Annual Information**

Quarterly Information

Monthly Information

FACILITY'S INPUTS VERIFIER FILE

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

**Inputs Data Loaded**

Last Saved File: 512669-Foley\_Corporation-2014.xml

Save Inputs Data Locally

Saved By (Date): Matt Foley (September 25, 2014 4:48 PM)

EQUATION H-5

$$CO_{2,m} = \sum_{i=1}^m TOC_{rm} + \frac{44}{12} \cdot \frac{2000}{2205}$$

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

Annual CO<sub>2</sub> emissions from raw materials for this kiln

(metric tons)

Use Inputs Verifier to calculate

GO

The Equation H-5 result calculated by IVT is not an annual reporting requirement and will not be included in your annual report. This calculated result will be used in determining your facility's total annual CO<sub>2</sub> process emissions from cement manufacturing (Equation H-1).

RAW MATERIAL 1

Number of times missing data procedures were used to determine...

...the monthly quantity of raw material consumed

(months)

...the annual organic carbon content of raw material feed

Enter 0 if missing data procedures were not used, 1 if they were.

FINISHED

CANCEL

QUARTERLY INFO

Paperwork Reduction Act Burden Statement | Contact Us

e-GGRT RY2014.R17 | H(annual)

## Saving and Reloading Your Inputs Verifier File

As you enter data into the Inputs Verifier Tool (IVT), the system creates and "inputs file" that contains all the data that you entered into IVT. You must save your inputs file to your computer or other location that you designate. On each subsequent log in, you will be prompted to temporarily upload the latest version of the inputs file to e-GGRT. **e-GGRT will not save data entered into the IVT. Users are responsible for saving their facility's inputs file.** This page shows how the IVT assists users with this task.

The following example demonstrates how the inputs to equations are 1) entered, 2) saved locally, 3) temporarily loaded at a later session, 4) the screen errors you may receive, and 5) error messages you may receive if you attempt to open an inputs file that is not the most recent one saved for your facility.



If you are having trouble locating your inputs file or would like to "Reset" and recreate your inputs file, please review our help content reviewing these processes at [Reloading Your Inputs Verifier File](#) or [Resetting your Facility To Create a New Inputs Verifier file](#).

To access the inputs verifier tool, users would log in to e-GGRT with their username and password, select their facility, and navigate to the "Data Reporting" section of e-GGRT.

>> [Click this link to expand](#)

Click this link to expand

**EPA** United States Environmental Protection Agency

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

HOME FACILITY REGISTRATION FACILITY MANAGEMENT DATA REPORTING EPA REPORTS HELP DESK

Help: System Check | My Profile | Logout

**e-EGRT Help**

Using e-EGRT for Subpart 9 Reporting

**Sloan Shoop**

**Subpart 9: Lime Manufacturing (2014)**

Subpart Overview | Subpart 9 Summary Information

**HS2.9.9 FACILITY-LEVEL CO<sub>2</sub> PROCESS EMISSIONS AND ADDITIONAL EMISSIONS INFORMATION**

Subpart 9 requires a facility to report the facility and emissions information described below. For additional information about the facility information required by Subpart 9, please see the e-EGRT Help link(s) provided.

**86,103.6**

HS 2.9.4 Annual CO<sub>2</sub> process emissions from lime production from all facilities included

**FACILITY'S INPUTS VERIFIED FILE**

[View Inputs Data Locally](#) | Last Exported File: 010809-Sloan\_Shoop-2014.xls | Exported By (Date): Selma Chee (July 29, 2014 3:42:28 PM)

**EQUATION 9-4 SUMMARY AND RESULT**

$$CO_2 = \sum_{i=1}^{12} \left( \sum_{j=1}^{12} (C_{BIOGAS}^{CO_2} \cdot M_{BIOGAS_j}) \right) + \sum_{i=1}^{12} \left( \sum_{j=1}^{12} (C_{GAS}^{CO_2} \cdot M_{GAS_j}) \right) + \sum_{i=1}^{12} (C_{OTHER}^{CO_2} \cdot M_{OTHER_i})$$

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 facilities included

86,103.6 (units: tons)

Use Inputs Definition is required

Enter/Repeat Alternate Result: [ ]

**ADDITIONAL EMISSIONS DATA**

Annual lime production capacity for the entire facility: 12 (short tons)

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

**CANCEL** **SAVE**

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e-EGRT 9/2014/11/11 | 1/1

**e-GGRT Help**

Using e-GGRT for Subpart S reporting

**Siem Reap**

**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.

**86,161.6**  
(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?](#)

Inputs Data Loaded

Last Exported File: 515869-Siem\_Reap-2014.xml

Save Inputs Data Locally

Exported By (Date): Sokha Chea (July 28, 2014 3:42:28 PM)

**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 **86161.6327** (metric tons)

Use Inputs Verifier to calculate **GO**

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

CANCEL

SAVE

On the Data Reporting tab for the selected subpart, immediately below a reported emissions value, the user will find a button labeled "Use Inputs Verifier to calculate| GO". Clicking **GO** will open the inputs verifier tool for that reported emissions value. Please note that screens in the inputs verifier tool are clearly marked with a unique header indicating that you are using the IVT (shown below with red outline).

>> [Click this link to expand](#)

The screenshot shows the EPA's e-GGRT Inputs Verification Tool. The interface is titled "e-GGRT Inputs Verification Tool" at the top right. Below the title bar, there is a navigation menu with options like "Home", "About", "Help", "Contact", and "Feedback". The main content area is divided into three sections: "Input Parameters", "Validation Results", and "Summary".

**Input Parameters:** This section contains several input fields and buttons. The "Model Name" field is set to "Model Name (e.g., Model Name)". The "Model Version" field is set to "Model Version (e.g., Model Version)". The "Model Path" field is set to "Model Path (e.g., Model Path)". There are buttons for "Validate", "Cancel", and "Help".

**Validation Results:** This section displays a table of validation results. The table has three columns: "Validation Item", "Status", and "Details". The "Validation Item" column lists various input parameters and their values. The "Status" column shows the result of the validation (e.g., "Valid", "Invalid", "Warning"). The "Details" column provides additional information about the validation results.

**Summary:** This section provides a high-level overview of the validation process. It includes the number of items validated, the number of items that passed, and the number of items that failed. It also includes a "Summary" button.

Siem Reap

## 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.

### FACILITY'S INPUTS VERIFIER FILE

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

#### Inputs Data Not Saved

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!

 [Save Inputs Data Locally](#)

### EQUATION INPUTS (1 OF 2)

Product or By-Product Name (type)  **Product 1 (product)**  all inputs entered  
 **By Product A (by-product sold)**  all inputs entered

[Equation S-4 Summary](#)

[←PREV](#)

[NEXT→](#)

$$\text{Equation S-1: } EF_{\text{LIME},i,n} = \left[ (SR_{\text{CaO}} \times \text{CaO}_{i,n}) + (SR_{\text{MgO}} \times \text{MgO}_{i,n}) \right] \times \frac{2000}{2205}$$

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)	<input type="text" value="0.66"/>	(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)	<input type="text" value="0.4"/>	(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)	0.8659	(metric tons CO2/ton lime)	
Weight or mass of lime type produced (input to Equation S-4)	<input type="text" value="520"/>	(tons)	<a href="#">Make all months same</a>
will not be stored by EPA			

### DECEMBER

Calcium oxide content, determined according to §98.194(c)	<input type="text" value="0.66"/>	(metric ton CaO/metric ton lime)	
will not be stored by EPA			
Magnesium oxide content, determined according to §98.194(c)	<input type="text" value="0.4"/>	(metric ton MgO/metric ton lime)	
will not be stored by EPA			
Emission factor for lime type (calculated input to Equation S-4)	0.8659	(metric tons CO2/ton lime)	
Weight or mass of lime type produced (input to Equation S-4)	<input type="text" value="520"/>	(tons)	
will not be stored by EPA			

[CANCEL](#)

[SAVE](#)



## Entering Data Using the IVT

Once in the IVT, the user will be able to enter inputs to equations data. An example of an inputs to equations field is outlined with red in the screen shot below. Please note that every field for inputs to equations states that the data "will not be stored by EPA". Unless you save you input files, you will need to manually re-enter this data during future data entry sessions.



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

>> [Click this link to expand](#)

The screenshot displays the EPA e-GGRT Inputs Verification Tool interface. At the top, the EPA logo and 'e-GGRT Inputs Verification Tool' are visible. The main section is titled 'Data Entry' and contains a 'Data Entry' button and a 'Data Entry' field. The 'Data Entry' field is outlined with a red border. Below the 'Data Entry' field is a 'Data Entry' table with columns for 'Data Entry' and 'Data Entry'. The table contains several rows of data, including 'Data Entry' and 'Data Entry'. The interface also includes a 'Data Entry' section with a 'Data Entry' button and a 'Data Entry' field. The 'Data Entry' field is outlined with a red border. Below the 'Data Entry' field is a 'Data Entry' table with columns for 'Data Entry' and 'Data Entry'. The table contains several rows of data, including 'Data Entry' and 'Data Entry'.

Siem Reap

## 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.

### FACILITY'S INPUTS VERIFIER FILE

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

#### Inputs Data Not Saved

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!

 [Save Inputs Data Locally](#)

### EQUATION INPUTS (1 OF 2)

Product or By-Product Name (type)  **Product 1 (product)**  all inputs entered  
 **By Product A (by-product sold)**  all inputs entered

[Equation S-4 Summary](#)

[←PREV](#)

[NEXT→](#)

$$\text{Equation S-1: } EF_{\text{LIME},i,n} = \left[ \left( SR_{\text{CaO}} \times \text{CaO}_{i,n} \right) + \left( SR_{\text{MgO}} \times \text{MgO}_{i,n} \right) \right] \times \frac{2000}{2205}$$

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)	<div>0.66</div> <div>will not be stored by EPA</div>	(metric ton CaO/metric ton lime)	<a href="#">Make all months same</a>
Magnesium oxide content, determined according to §98.194(c)	<div>0.4</div> <div>will not be stored by EPA</div>	(metric ton MgO/metric ton lime)	<a href="#">Make all months same</a>
Emission factor for lime type (calculated input to Equation S-4)	0.8659	(metric tons CO2/ton lime)	
Weight or mass of lime type produced (input to Equation S-4)	<div>520</div> <div>will not be stored by EPA</div>	(tons)	<a href="#">Make all months same</a>

### DECEMBER

Calcium oxide content, determined according to §98.194(c)	<div>0.66</div> <div>will not be stored by EPA</div>	(metric ton CaO/metric ton lime)	
Magnesium oxide content, determined according to §98.194(c)	<div>0.4</div> <div>will not be stored by EPA</div>	(metric ton MgO/metric ton lime)	
Emission factor for lime type (calculated input to Equation S-4)	0.8659	(metric tons CO2/ton lime)	
Weight or mass of lime type produced (input to Equation S-4)	<div>520</div> <div>will not be stored by EPA</div>	(tons)	

[CANCEL](#)

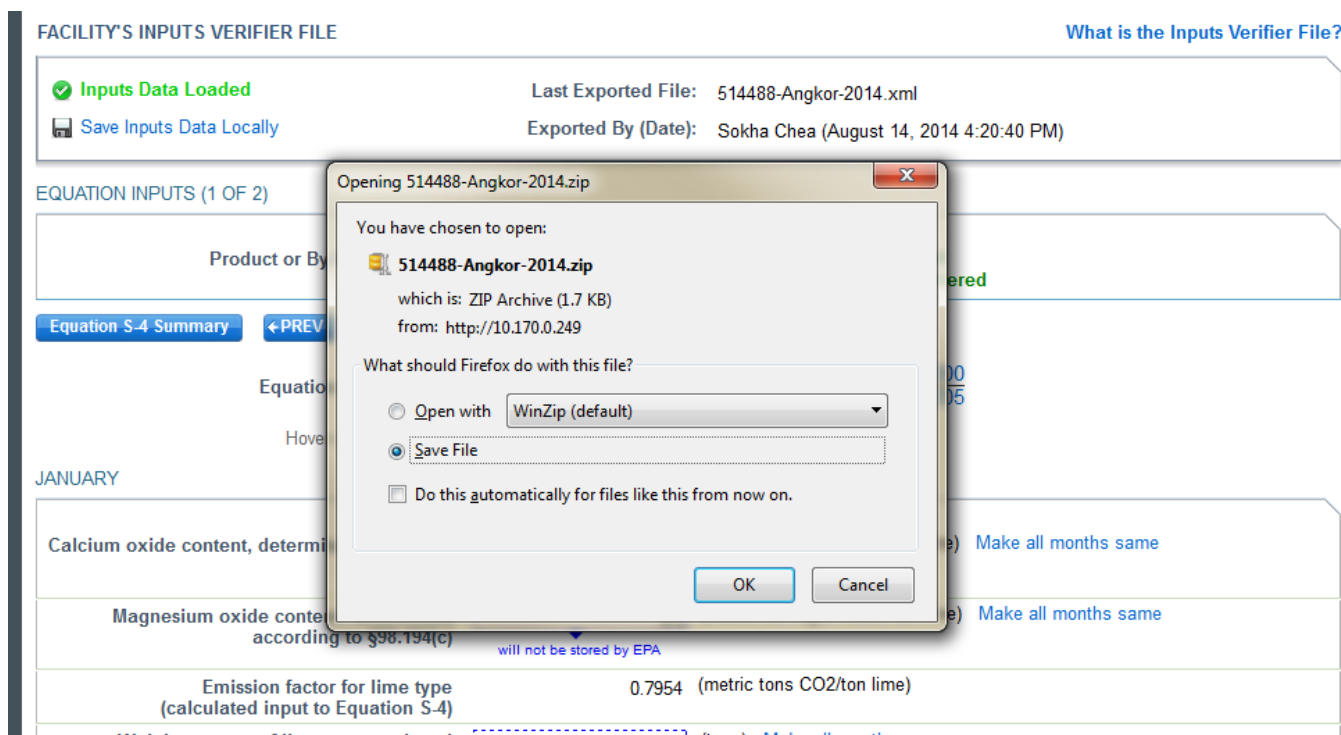
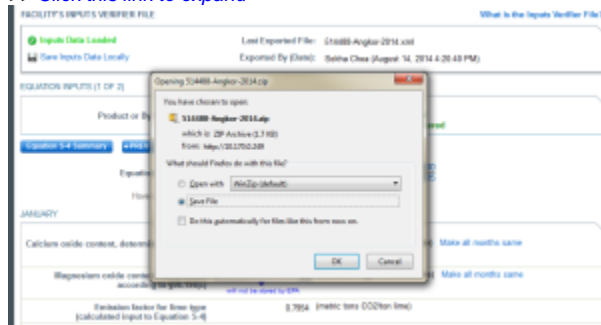
[SAVE](#)

## Saving Data Entered in the IVT

Data entered into the inputs verifier module are **NOT** saved in e-GGRT. Only the output values from the inputs verifier module are saved in e-GGRT. **Therefore, each user/facility will have to save their inputs verifier file to their local hard drive and keep track of the file for future use.** On the top of each IVT screen, immediately below the grey box, IVT will present the save status of your FACILITY'S INPUTS VERIFIER FILE (File History), which contains the data entered into the inputs verifier module. To use e-GGRT in the future for your facility, you must save this file in a place where you can access it. This status box is also available on the Facility Overview page. Prior to saving your inputs verifier file, this section of the screen will state **"Inputs Data Not Saved"** in red letters and will provide the "Last Saved File" field. Click **"Save Inputs Data"** to save the inputs verifier file to your computer. This status box appears on many pages throughout e-GGRT and IVT so that it is easy for you to save inputs. However, you only need to save inputs at the completion of each data entry session.

After clicking **"Save Inputs Data"**, you will be able to save the inputs verifier file to your computer. Please note that different browsers may allow the user to set file-saving preferences and default locations. The example shown below uses the Firefox browser. Each user's save dialog box and defaults may appear differently, depending on the browser used. For information on browser-specific behaviors please refer to [Browser-specific issues and behaviors](#).

>> [Click this link to expand](#)



Once you have saved the file, the inputs verifier file status box will display **"Inputs Data Saved"** in green text and the "Saved By (Date):" field that shows the name of the user who most recently saved an inputs verifier file and the date and time." Each time you click "Save Inputs Data Locally", the IVT will record that you have saved your inputs verifier file. The IVT does not record where you save your inputs verifier file or whether you elect to cancel this action.

## Reloading an Inputs Verifier File

When you come back to e-GGRT in a later session, you will return to the FACILITY or SUPPLIER OVERVIEW web form. Here you will see the box for the FACILITY'S INPUTS VERIFIER FILE (File History), with the message that **"Inputs Data Not Loaded"** in red text. To load an inputs verifier file that has been previously saved, click the link labeled **"Temporarily Load Inputs Data"**. Then browse to and select the inputs verifier file saved locally (to your local computer or local network drive). The IVT will accept the ZIP file or XML file previously downloaded by the user or a copy of that file (note: this file may be renamed but its contents must be identical). Finally, click the **IMPORT** button to load the file to the inputs verifier tool.

>> [Click this link to expand](#)

Temporarily load Inputs Verifier data

Last Saved File: 515408-Subpart\_C-2015-v4.0.5

Saved By (Date): Vincent Vega (February 17, 2016 10:52 AM)

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

Choose File

No file chosen

LOAD

CANCEL

If you are unable to locate the Last Saved File above, or know it to be lost:

1. You may load an older version of your inputs file. Doing so will require the system to re-calculate and re-validate all equations based on the inputs contained in that inputs file version.

2. You may "reset" your facility. The reset process will enable you to enter this subpart; but, the reset process will remove ALL previously calculated Inputs Verifier Tool results and will require you to re-enter ALL Inputs Verifier Tool equation inputs data for ALL of this facility's subparts.

RESET FACILITY

Temporarily load Inputs Verifier data

Last Saved File: 515408-Subpart\_C-2015-v4.0.5

Saved By (Date): Vincent Vega (February 17, 2016 10:52 AM)

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

Choose File

No file chosen

LOAD

CANCEL

If you are unable to locate the Last Saved File above, or know it to be lost:

1. You may load an older version of your inputs file. Doing so will require the system to re-calculate and re-validate all equations based on the inputs contained in that inputs file version.

2. You may "reset" your facility. The reset process will enable you to enter this subpart; but, the reset process will remove ALL previously calculated Inputs Verifier Tool results and will require you to re-enter ALL Inputs Verifier Tool equation inputs data for ALL of this facility's subparts.

RESET FACILITY

If the user attempts to reload an inputs verifier file that is not the one most recently saved for the facility, the user will receive the following warning message. The system prevents the user from accidentally loading an outdated file and thus losing the most recent data. Note that you may elect to choose "I Would Like to Upload this File" and the system will attempt to reconcile all validation messages and IVT calculations (which are based on the most recently-saved file) based on the inputs contained in the old file that you are electing to load. **If you elect to proceed to upload an old file, it is highly recommended that you review all equation inputs and calculations to ensure your annual report is complete and accurate.**

>> [Click this link to expand](#)

The Inputs Verifier File you are attempting to load is not the last saved file. It is strongly recommended that you locate the last saved file in order to ensure that you do not lose any previously completed work. You may refer to the following help content if you are having trouble locating your most recent file: [Finding Last Input Files](#). If you would like to try again with a different file, please click CANCEL. If you would like to load this file, the system will re-calculate and re-validate all equations based on the inputs contained in this file and you will be prompted to re-save a local copy of this inputs file. If you proceed with this option, you should review all equation inputs and calculations to ensure your annual report is complete and accurate.

CANCEL

I WOULD LIKE TO UPLOAD THIS FILE

The Inputs Verifier File you are attempting to load is not the last saved file. It is strongly recommended that you locate the last saved file in order to ensure that you do not lose any previously completed work. You may refer to the following help content if you are having trouble locating your most recent file: [Finding Lost Input Files](#). If you would like to try again with a different file, please click CANCEL. If you would like to load this file, the system will re-calculate and re-validate all equations based on the inputs contained in this file and you will be prompted to re-save a local copy of this inputs file. If you proceed with this option, you should review all equation inputs and calculations to ensure your annual report is complete and accurate.

CANCEL

I WOULD LIKE TO UPLOAD THIS FILE

## Screen Errors You May Receive

When attempting to save inputs data during the IVT data entry process, the user may receive screen errors that indicate the user has not completely entered required data to the Inputs Verifier Tool. Screen errors must be corrected before you will be permitted to complete a save action. Once you have corrected these errors, IVT will be able to calculate the equation result and you will be able to save your inputs verifier file locally.

>> [Click this link to expand](#)

The screenshot displays the EPA e-GGRT Inputs Verifier Tool interface. At the top, the EPA logo and "e-GGRT Inputs Verifier Tool" are visible. The user is logged in as "Admin". The main heading is "Subpart 5: Lime Manufacturing (2014)". Below this, there are tabs for "Equation Overview", "Equation 5:1 Summary Information", and "Equation 5:1 Inputs". The "Equation 5:1 Inputs" tab is active, showing "EQUATION 5:1 PRODUCT INPUTS". A message states: "Use this page to enter the inputs for equation 5-1. 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 summaries, viewable from the 'Equation Overview' pages) will be stored by EPA." Below this, there is a section for "FACILITY'S INPUTS VERIFIER FILE" with a "What is the Inputs Verifier File?" link. A red error message says "Inputs Data Not Saved" with a note: "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" link is provided. The "EQUATION INPUTS (OF 2)" section shows "Product or By-Product Name (type)" with a dropdown menu set to "Product 1 (product)" and a status "all inputs entered". Below this are tabs for "Equation 5:1 Summary", "Inputs", and "Results". The "SCREEN ERRORS" section has a red error message: "Calcium oxide content for July, determined according to §98.104(c). This data element is required. Please enter the required data or click CANCEL." Below this is the "Equation 5-1:  $EF_{CaO} = \left( \left\{ \frac{WR_{CaO}}{CaO} + \frac{CaO}{CaO} \right\} \times \left\{ \frac{WR_{MgO}}{MgO} + \frac{MgO}{MgO} \right\} \right) \times \frac{2000}{2298}$ " formula. A note says: "Hover over an element in the equation above to reveal a definition of that element." The "PARAMETER" section shows "Calcium oxide content, determined according to §98.104(c)" with a dropdown menu set to "not to exceed 95%" and a note "Metric for CaO metric ton lime. Note all monthly same". Below this is "Magnesium oxide content, determined according to §98.104(c)" with a dropdown menu set to "not to exceed 95%" and a note "Metric for MgO metric ton lime. Note all monthly same". At the bottom, "Emission factor for lime type (calculation input to Equation 5-4)" is set to "1.7921" with a note "Metric ton lime CO2/metric ton lime".

Angkor

## 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.

### FACILITY'S INPUTS VERIFIER FILE

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

#### Inputs Data Not Saved

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!

 [Save Inputs Data Locally](#)

### EQUATION INPUTS (1 OF 2)


Product or By-Product Name (type)  **Product 1 (product)**  all inputs entered  
 **By Product (by-product sold)**  all inputs entered

[Equation S-4 Summary](#)

[← PREV](#)

[NEXT →](#)

### SCREEN ERRORS

 Calcium oxide content for July, determined according to §98.194(c). This data element is required. Please enter the required data or click CANCEL.

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

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)  (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 1.7021 (metric tons CO2/ton lime)  
(calculated input to Equation S-4)

If the user inputs and saves data in IVT, then adds, deletes, or updates one or more inputs to an equation in IVT without saving the inputs file locally and subsequently attempts to log out of e-GGRT, the following warning message will be displayed.

>> [Click this link to expand](#)

**WARNING!** You have not saved data entered into the Inputs Verifier Tool.

If you wish to save this data before logging out, click **SAVE INPUTS** to return to e-GGRT. If you proceed to logout this data will be discarded as it is not saved by e-GGRT.

[SAVE INPUTS AND LOGOUT](#) [LOGOUT - DISCARD EQUATION INPUTS DATA](#) [CANCEL](#)

**WARNING!** You have not saved data entered into the Inputs Verifier Tool.

If you wish to save this data before logging out, click **SAVE INPUTS** to return to e-GGRT. If you proceed to logout this data will be discarded as it is not saved by e-GGRT.

[SAVE INPUTS AND LOGOUT](#)

[LOGOUT - DISCARD EQUATION INPUTS DATA](#)

[CANCEL](#)

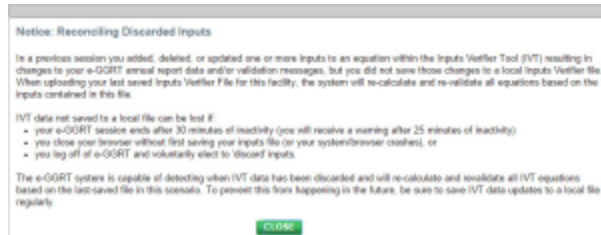
The user has three options:



- **SAVE INPUTS AND LOGOUT** - after clicking this button, the user is prompted to save the inputs file locally. Once the file has been saved, the user is logged out of e-GGRT.
- **LOGOUT - DISCARD EQUATION INPUTS DATA** - the most recent changes to the inputs data are discarded and the user is automatically logged out of e-GGRT. The inputs file is NOT saved.
- **CANCEL** - the user is returned to e-GGRT. The inputs file is NOT saved. Note that if the user clicks CANCEL and does not save the inputs file locally and later attempts to logout, the warning message will be displayed again).

If the user clicked the LOGOUT - DISCARD EQUATION INPUTS DATA button in a previous session, the following message will be displayed the next time the user logs in.

>> [Click this link to expand](#)



### Notice: Reconciling Discarded Inputs

In a previous session you added, deleted, or updated one or more inputs to an equation within the Inputs Verifier Tool (IVT) resulting in changes to your e-GGRT annual report data and/or validation messages, but you did not save those changes to a local Inputs Verifier file. When uploading your last saved Inputs Verifier File for this facility, the system will re-calculate and re-validate all equations based on the inputs contained in this file.

IVT data not saved to a local file can be lost if:

- your e-GGRT session ends after 30 minutes of inactivity (you will receive a warning after 25 minutes of inactivity)
- you close your browser without first saving your inputs file (or your system/browser crashes), or
- you log off of e-GGRT and voluntarily elect to 'discard' inputs.

The e-GGRT system is capable of detecting when IVT data has been discarded and will re-calculate and revalidate all IVT equations based on the last-saved file in this scenario. To prevent this from happening in the future, be sure to save IVT data updates to a local file regularly.

**CLOSE**

To load an inputs verifier file that has been previously saved (as would occur if you logged off and came back to e-GGRT in a later session), the user would click the link labeled **"Temporarily Load Inputs Data"**. The user would browse to and select the inputs verifier file saved locally (to their local computer or local network drive). The IVT will accept the ZIP file or XML file previously downloaded by the user or a copy of that file (note: this file may be renamed but its contents must be identical) . The user would then click the **IMPORT** button to load the file to the inputs verifier tool.

## FACILITY'S INPUTS VERIFIER FILE

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

**Inputs Data Not Loaded**

[Temporarily Load Inputs Data](#)

**Last Saved File:** 516069-MLH\_\_Resources-2014.xml

**Saved By (Date):** M Huppert (October 20, 2014 11:28 AM)

If you attempt to reload an inputs verifier file that is not the one most recently saved for the facility, the user will receive the following warning message. The system prevents the user from accidentally loading an outdated file and thus losing the most recent data. Note that you may elect to choose "I Would Like to Upload this File" and the system will attempt to reconcile all validation messages and IVT calculations (which are based on the most recently-saved file) based on the inputs contained in the old file that you are electing to load. **If you elect to proceed to upload an old file, it is highly recommended that you review all equation inputs and calculations to ensure your annual report is complete and accurate.**

The Inputs Verifier File you are attempting to load is not the last saved file. It is strongly recommended that you locate the last saved file in order to ensure that you do not lose any previously completed work. You may refer to the following help content if you are having trouble locating your most recent file: [Finding Lost Input Files](#). If you would like to try again with a different file, please click CANCEL. If you would like to load this file, the system will re-calculate and re-validate all equations based on the inputs contained in this file and you will be prompted to re-save a local copy of this inputs file. If you proceed with this option, you should review all equation inputs and calculations to ensure your annual report is complete and accurate.

CANCEL

I WOULD LIKE TO UPLOAD THIS FILE