

Subpart F Entering Equation Inputs Using IVT

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

>> [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

Foley Corporation
Subpart F: Aluminum Production (2014)
Subpart Overview » Smelter or Potline » [GHG Info](#)

SMELTER OR POTLINE PFC EMISSIONS SUMMARY
Use this page to report perfluoromethane (CF₄) and perfluoroethane (C₂F₆) emissions for a given smelter or potline. For additional information about Subpart F reporting, please use the e-GGRT Help link(s) provided.

Annual mass of CF₄ (metric tons)

Annual mass of C₂F₆ (metric tons)

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 F-1 SUMMARY AND RESULTS

Unique Name/Identifier Unit 345

$$E_{pfc} = \sum_{m=1}^{m=12} E_m$$

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

ENTER GHG DATA

Annual CF₄ (perfluoromethane) mass emissions (metric tons)
[Use Inputs Verifier to calculate](#) **GO**

Annual C₂F₆ (perfluoroethane) mass emissions (metric tons)
[Use Inputs Verifier to calculate](#) **GO**

[Subpart Overview](#) **SAVE** **CANCEL**

Paperwork Reduction Act Burden Statement | Contact Us

e-GGRT RY2014.R17 | F-overview

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 the Subpart F IVT page for calculation of annual CF₄ (perfluoromethane) mass emissions and is displayed as an example. The screen for other inputs verifier modules within Subpart F may differ slightly.

First, select the equation used to calculate emissions.

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

The screenshot shows the EPA e-GGRT Inputs Verifier Tool interface. At the top, it says "United States Environmental Protection Agency" and "e-GGRT Inputs Verifier Tool". Below that, it says "Matt Foley and Sons Inc" and "Subpart F: Aluminum Production (2015)". There is a "Subpart Overview » Equation F-2 or F-3 Inputs" link. A grey box contains the text: "EQUATION F-2 OR F-3 INPUTS Use this page to enter the inputs to Equations F-2 or F-3 for the selected smelter or potline. 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." Below this is a section for "EQUATION INPUTS (1 OF 2)" with a table containing "Unique Name/Identifier" and "Smelter 123". There are two radio button options: "Equation F-2, F-3, and F-4 Inputs" and "Equation F-2 or F-3 Inputs". The second option is selected. Below the radio buttons is a red box containing the text: "Equation used to calculate CF₄ emissions" with two radio button options: "Equation F-2: Emissions from anode effect duration" and "Equation F-3: Emissions from overvoltage". At the bottom are "SAVE" and "CANCEL" buttons.

The screenshot shows the EPA e-GGRT Inputs Verifier Tool interface. At the top, it says "United States Environmental Protection Agency" and "e-GGRT Inputs Verifier Tool". Below that, it says "Hello, Matt Foley | My Profile | Logout". Below that, it says "Matt Foley and Sons Inc" and "Subpart F: Aluminum Production (2015)". There is a "Subpart Overview » Equation F-2 or F-3 Inputs" link. A grey box contains the text: "EQUATION F-2 OR F-3 INPUTS Use this page to enter the inputs to Equations F-2 or F-3 for the selected smelter or potline. 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." Below this is a section for "EQUATION INPUTS (1 OF 2)" with a table containing "Unique Name/Identifier" and "Smelter 123". There are two radio button options: "Equation F-2, F-3, and F-4 Inputs" and "Equation F-2 or F-3 Inputs". The second option is selected. Below the radio buttons is a red box containing the text: "Equation used to calculate CF₄ emissions" with two radio button options: "Equation F-2: Emissions from anode effect duration" and "Equation F-3: Emissions from overvoltage". At the bottom are "SAVE" and "CANCEL" buttons.

Next, enter the emissions inputs. When finished, click the NEXT button.



The screenshot below is from the Subpart F IVT page for Equation F-2 for the calculation of annual CF₄ (perfluoromethane) mass emissions and is displayed as an example. The screen for other inputs verifier modules within Subpart F may differ slightly.

>> Click this link to expand

Register
Subpart F: Aluminum Production (2017)
 Subpart Overview > Equation F-2 or F-3 Inputs

EQUATION F-2 OR F-3 INPUTS
 Use this page to enter the inputs to Equation F-2 or F-3 for the selected calendar or payroll. The inputs you enter will be used for verification purposes only, and will not be stored by EPA. The results of the verification checks (the verification summary, available from the "Subpart Overview" page) will be stored by EPA.

EQUATION INPUTS (1 OF 2)

Unique Name/Identifier: **Net**
 Equation F-2, F-3, and F-4 Inputs: **Equation F-2 or F-3 Inputs**
 Equation F-4 Inputs

Equation used to calculate CO₂ emissions Equation F-2: Emissions from smelter effect duration
 Equation F-3: Emissions from overblasts

EQUATION F-2

$CO_{2e} = T_{2017} \times (EM + 10P) \times 0.001$

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

Month	Wage coefficient (by calendar or payroll)	Hours worked (per shift) (by calendar or payroll)	Hours worked (per shift) (by calendar or payroll)	Hours worked (per shift) (by calendar or payroll)
W January	T_{2017} <input type="text" value="None all months same"/>	AWP <input type="text" value="None all months same"/>	AWP <input type="text" value="None all months same"/>	MP <input type="text" value="None all months same"/>
W February	T_{2017} <input type="text" value="None all months same"/>	AWP <input type="text" value="None all months same"/>	AWP <input type="text" value="None all months same"/>	MP <input type="text" value="None all months same"/>
W March	T_{2017} <input type="text" value="None all months same"/>	AWP <input type="text" value="None all months same"/>	AWP <input type="text" value="None all months same"/>	MP <input type="text" value="None all months same"/>
W April	T_{2017} <input type="text" value="None all months same"/>	AWP <input type="text" value="None all months same"/>	AWP <input type="text" value="None all months same"/>	MP <input type="text" value="None all months same"/>
W May	T_{2017} <input type="text" value="None all months same"/>	AWP <input type="text" value="None all months same"/>	AWP <input type="text" value="None all months same"/>	MP <input type="text" value="None all months same"/>
W June	T_{2017} <input type="text" value="None all months same"/>	AWP <input type="text" value="None all months same"/>	AWP <input type="text" value="None all months same"/>	MP <input type="text" value="None all months same"/>
W July	T_{2017} <input type="text" value="None all months same"/>	AWP <input type="text" value="None all months same"/>	AWP <input type="text" value="None all months same"/>	MP <input type="text" value="None all months same"/>
W August	T_{2017} <input type="text" value="None all months same"/>	AWP <input type="text" value="None all months same"/>	AWP <input type="text" value="None all months same"/>	MP <input type="text" value="None all months same"/>
W September	T_{2017} <input type="text" value="None all months same"/>	AWP <input type="text" value="None all months same"/>	AWP <input type="text" value="None all months same"/>	MP <input type="text" value="None all months same"/>
W October	T_{2017} <input type="text" value="None all months same"/>	AWP <input type="text" value="None all months same"/>	AWP <input type="text" value="None all months same"/>	MP <input type="text" value="None all months same"/>
W November	T_{2017} <input type="text" value="None all months same"/>	AWP <input type="text" value="None all months same"/>	AWP <input type="text" value="None all months same"/>	MP <input type="text" value="None all months same"/>
W December	T_{2017} <input type="text" value="None all months same"/>	AWP <input type="text" value="None all months same"/>	AWP <input type="text" value="None all months same"/>	MP <input type="text" value="None all months same"/>

This smelter or payroll was not operational for the entire 12-month period, which the full 12-month entry-0000-0000 will not accept inputs to be entered.

Subpart Overview > Equation F-2 or F-3 Inputs > Register

Angkor

Subpart F: Aluminum Production (2017)

Subpart Overview » [Equation F-2 or F-3 Inputs](#)

EQUATION F-2 OR F-3 INPUTS

Use this page to enter the inputs to Equations F-2 or F-3 for the selected smelter or potline. 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.

Input will not be stored by EPA **IVT**

EQUATION INPUTS (1 OF 2)

Unique Name/Identifier Test

Equation F-2, F-3, and F-4 Inputs **▶ Equation F-2 or F-3 Inputs**
 ▶ Equation F-4 Inputs

NEXT ▶

Equation used to calculate CF₄ emissions Equation F-2: Emissions from anode effect duration
 Equation F-3: Emissions from overvoltage

EQUATION F-2

$$E_{CF4} = S_{CF4} \times AEM \times MP \times 0.001$$

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

Month ¹	Slope coefficient (kg CF ₄ /metric ton Al)	Anode effect minutes per cell-day (AE-Mins/cell-day)	Metal production of aluminum (metric tons)
<input checked="" type="checkbox"/> January	S _{CF4} <input type="text"/> <small>Make all months same</small>	AEM <input type="text"/> <small>Make all months same</small>	MP <input type="text"/> <small>Make all months same</small>
<input checked="" type="checkbox"/> February	S _{CF4} <input type="text"/>	AEM <input type="text"/>	MP <input type="text"/>
<input checked="" type="checkbox"/> March	S _{CF4} <input type="text"/>	AEM <input type="text"/>	MP <input type="text"/>
<input checked="" type="checkbox"/> April	S _{CF4} <input type="text"/>	AEM <input type="text"/>	MP <input type="text"/>
<input checked="" type="checkbox"/> May	S _{CF4} <input type="text"/>	AEM <input type="text"/>	MP <input type="text"/>
<input checked="" type="checkbox"/> June	S _{CF4} <input type="text"/>	AEM <input type="text"/>	MP <input type="text"/>
<input checked="" type="checkbox"/> July	S _{CF4} <input type="text"/>	AEM <input type="text"/>	MP <input type="text"/>
<input checked="" type="checkbox"/> August	S _{CF4} <input type="text"/>	AEM <input type="text"/>	MP <input type="text"/>
<input checked="" type="checkbox"/> September	S _{CF4} <input type="text"/>	AEM <input type="text"/>	MP <input type="text"/>
<input checked="" type="checkbox"/> October	S _{CF4} <input type="text"/>	AEM <input type="text"/>	MP <input type="text"/>
<input checked="" type="checkbox"/> November	S _{CF4} <input type="text"/>	AEM <input type="text"/>	MP <input type="text"/>
<input checked="" type="checkbox"/> December	S _{CF4} <input type="text"/>	AEM <input type="text"/>	MP <input type="text"/>

CANCEL

¹ If the smelter or potline was non-operational for the entirety of a given month please uncheck the box for that month and e-GGRT will not expect inputs to be entered.

Enter the next set of emissions inputs.

 The screenshot below is from the Subpart F IVT page for Equation F-4 for the calculation of annual CF₄ (perfluoromethane) mass emissions and is displayed as an example. The screen for other inputs verifier modules within Subpart F may differ slightly.

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



Matt Foley and Sons Inc
Subpart F: Aluminum Production (2015)
 Subpart Overview » Equation F.4 Inputs

EQUATION F-4 INPUTS
 Use this page to enter the inputs to Equation F-4 for the selected smelter or potline. 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.

Input will not be stored by EPA **IVT**

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

Inputs Data Not Saved Last Saved File: A file has not yet been saved for this facility. Be sure to use the "Save Inputs Data" 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](#) Saved By (Date):

EQUATION INPUTS (2 OF 2)

Unique Name/Identifier Smelter 123

Equation F-2, F-3, and F-4 Inputs [Equation F-2 or F-3 Inputs](#)
[Equation F-4 Inputs](#)

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

EQUATION F-4

$$E_{C_2F_6} = E_{CF_4} \times F_{C_2F_6/CF_4} \times 0.001$$

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

Month	Monthly CF ₄ emissions from aluminum production (kg)	Weight fraction of C ₂ F ₆ /CF ₄ (kg C ₂ F ₆ /kg CF ₄)
January	E _{CF₄} <input type="text" value="1.000"/>	F _{C₂F₆/CF₄} <input type="text" value="Make all months same"/>
February	E _{CF₄} <input type="text" value="1.000"/>	F _{C₂F₆/CF₄} <input type="text"/>
March	E _{CF₄} <input type="text" value="1.000"/>	F _{C₂F₆/CF₄} <input type="text"/>
April	E _{CF₄} <input type="text" value="1.000"/>	F _{C₂F₆/CF₄} <input type="text"/>
May	E _{CF₄} <input type="text" value="1.000"/>	F _{C₂F₆/CF₄} <input type="text"/>
June	E _{CF₄} <input type="text" value="1.000"/>	F _{C₂F₆/CF₄} <input type="text"/>
July	E _{CF₄} <input type="text" value="1.000"/>	F _{C₂F₆/CF₄} <input type="text"/>
August	E _{CF₄} <input type="text" value="1.000"/>	F _{C₂F₆/CF₄} <input type="text"/>
September	E _{CF₄} <input type="text" value="1.000"/>	F _{C₂F₆/CF₄} <input type="text"/>
October	E _{CF₄} <input type="text" value="1.000"/>	F _{C₂F₆/CF₄} <input type="text"/>

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

Click the "Finished entering inputs" button. e-GGRT will calculate your emissions and return you to the Smelter or Potline PFC Emissions Summary page 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.

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](#)

The screenshot displays the EPA e-GGRT web interface. At the top, the EPA logo and navigation menu are visible. The main content area is titled "Subject 8: Lime Manufacturing (2014)". Below this, there is a section for "FACILITY-LEVEL CO₂ PROCESS EMISSIONS AND ADDITIONAL EMISSIONS INFORMATION" with a value of 86,103.5. A "FACILITY'S INPUTS VERIFIER FILE" section shows a file named "151889-Steel_09ap-2014.xls" with a "View Inputs Data Locally" button. The "EQUATION 5-4 SUMMARY AND RESULT" section contains a complex mathematical formula for CO₂ emissions. Below the formula, there is a "Manual CO₂ process emissions from lime production from all lime" input field with a value of 86,103.5 and a "Use Inputs Verifier to calculate" button. The "ADDITIONAL EMISSIONS DATA" section includes fields for "Annual lime production capacity for the entire facility" and "Was CO₂ used on site?".

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 CO₂ 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 CO₂ 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 CO₂ 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 12 (short tons)

Was CO₂ 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](#)

EPA **e-GGRT**
Inputs Verification Tool

Load Data
Load Data (2014)

DATA INPUTS

INPUTS

Parameter	Value	Unit
...

OUTPUTS

Parameter	Value	Unit
...

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→](#)

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

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)	Make all months same
<small>will not be stored by EPA</small>			
Magnesium oxide content, determined according to §98.194(c)	<input type="text" value="0.4"/>	(metric ton MgO/metric ton lime)	Make all months same
<small>will not be stored by EPA</small>			
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)	Make all months same
<small>will not be stored by EPA</small>			

DECEMBER

Calcium oxide content, determined according to §98.194(c)	<input type="text" value="0.66"/>	(metric ton CaO/metric ton lime)	
<small>will not be stored by EPA</small>			
Magnesium oxide content, determined according to §98.194(c)	<input type="text" value="0.4"/>	(metric ton MgO/metric ton lime)	
<small>will not be stored by EPA</small>			
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)	
<small>will not be stored by EPA</small>			

[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-Verifier Tool interface. At the top, the EPA logo and the tool title "e-GGRT Inputs-Verifier Tool" are visible. Below this, there is a "Last Print" section showing a date and time. The main area is titled "INPUTS TO EQUATIONS" and contains several input fields. One field, "Equation 1: CO2eq", is highlighted with a red border. Below this are several rows of input fields for "Equation 2: CH4eq", "Equation 3: CH4eq", and "Equation 4: CH4eq". The bottom section shows a "RESULTS" table with columns for "Equation", "Value", and "Unit". The table contains data for the four equations listed above.

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→](#)

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

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)	0.66	(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)	0.4	(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)	0.8659	(metric tons CO2/ton lime)	
Weight or mass of lime type produced (input to Equation S-4)	520	(tons)	Make all months same
	will not be stored by EPA		

DECEMBER

Calcium oxide content, determined according to §98.194(c)	0.66	(metric ton CaO/metric ton lime)	
	will not be stored by EPA		
Magnesium oxide content, determined according to §98.194(c)	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)	520	(tons)	
	will not be stored by EPA		

[CANCEL](#)

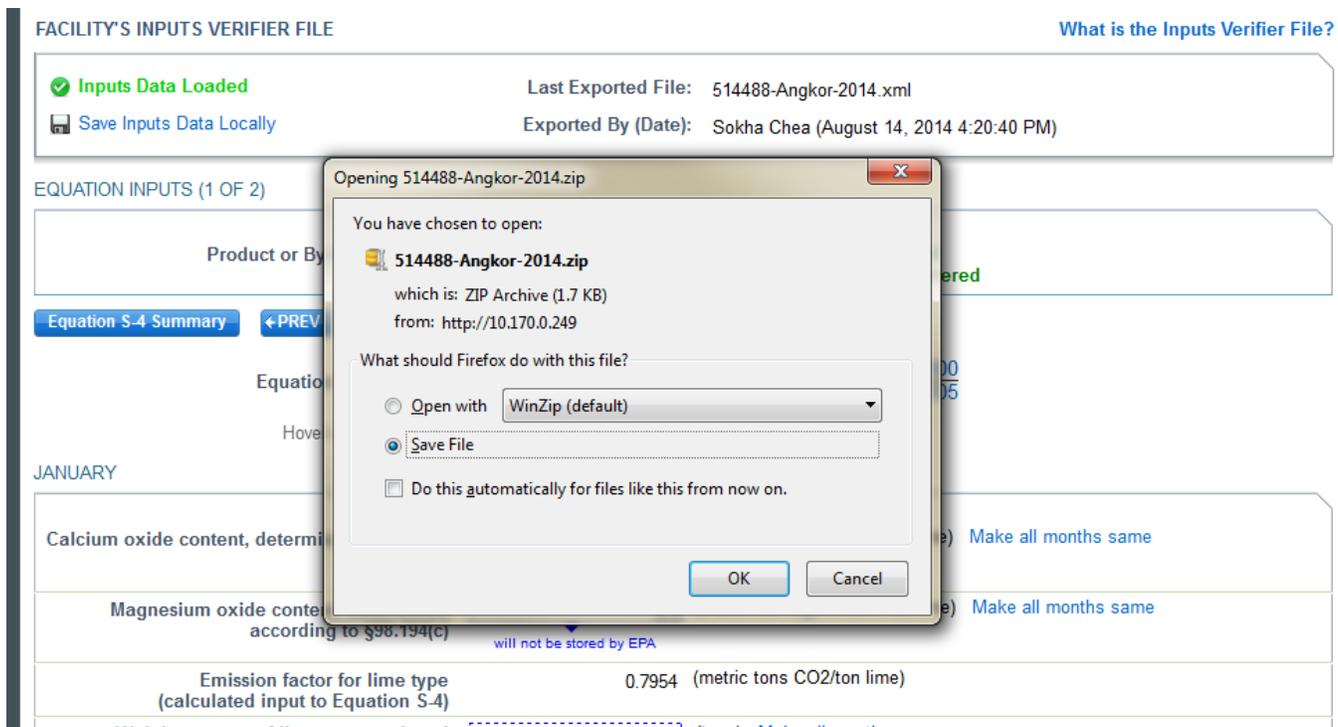
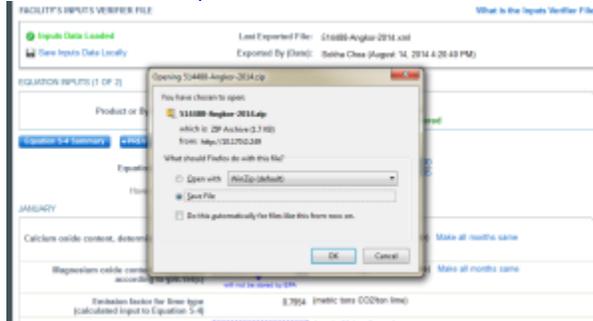
[SAVE](#)

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: 515488-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](#)



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.

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

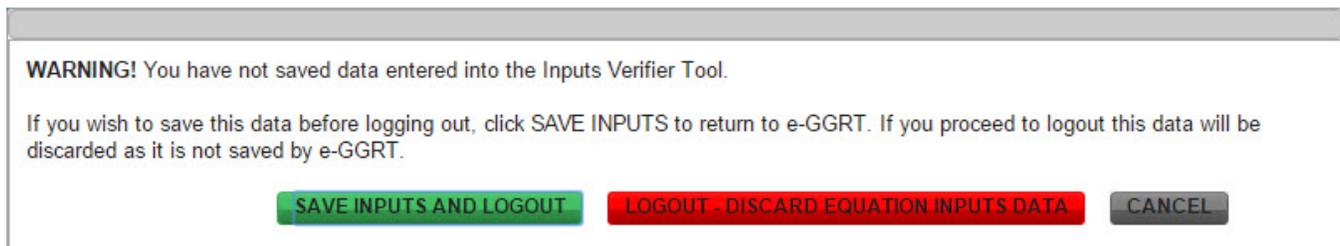
Hover over an element in the equation above to reveal a definition of that element.

JANUARY

Calcium oxide content, determined according to §98.194(c)	<input type="text" value="1"/>	(metric ton CaO/metric ton lime) Make all months same
<small>will not be stored by EPA</small>		
Magnesium oxide content, determined according to §98.194(c)	<input type="text" value="1"/>	(metric ton MgO/metric ton lime) Make all months same
<small>will not be stored by EPA</small>		
Emission factor for lime type (calculated input to Equation S-4)	1.7021 (metric tons CO2/ton lime)	

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](#)

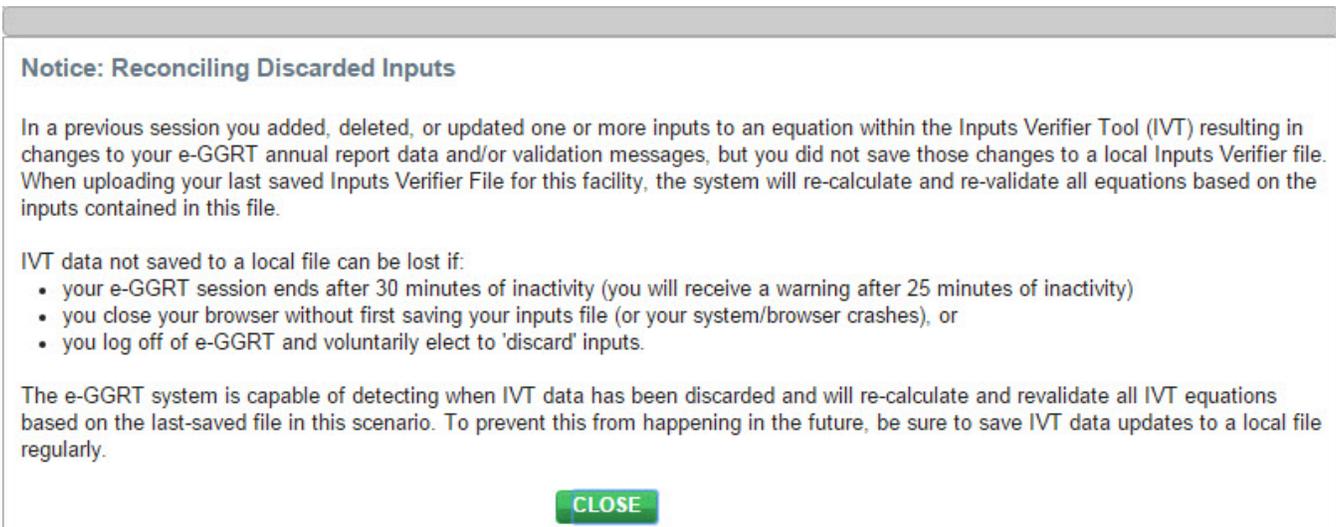
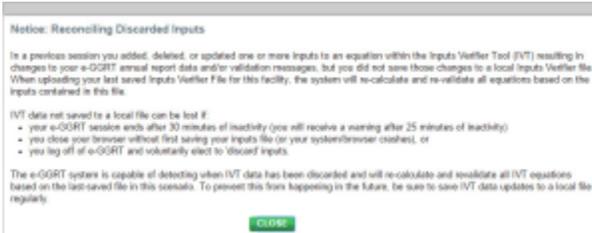


The user has three options:

- **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](#)



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	Last Saved File: 516069-MLH__Resources-2014.xml
Temporarily Load Inputs Data	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