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You will see a number of e-GGRT screenshots throughout this webinar. These screenshots may differ slightly from the final version of e-GGRT that is made available for live GHG reporting later this year.



This training session focuses on using e-GGRT web forms to report data for Subpart H. In this training we have four topics to cover:

The first covers the procedures for entering Subpart H specific data for cement kilns using the clinker based methodology.

The second will focus on entering subpart H specific data for cement kilns which monitor emissions using a continuous emissions monitoring system (CEMS).

Next we will review the e-GGRT validation messages under Subpart H.

Finally, we will then review the basic steps for submitting your data report to EPA.

Now let's turn to reviewing the web forms for Subpart H.



Once you have opened your facility through the data reporting tab, click the on the blue hyperlinked text from the facility overview page as shown to "ADD or REMOVE Subparts" so that you can add Subpart H – Cement Production to your facility.



You will then be on the Subpart Selection page. For this training session, we are selecting the checkbox next to Subpart H subpart list.

If other subparts are applicable to your facility, such as subpart H this is where you would select those subparts.

Also note that if you remove or un-check a subpart on this page that you have already added, you will lose all data you have entered for that subpart.

To continue, you need to hit the green "SAVE" button at the bottom of the page to accept this selection as shown.



When you return to the "Facility or Supplier Overview" page, you should now see Subpart H listed in the REPORT DATA table as shown here in the third row.

Now that you have added Subpart H, you can click the blue "OPEN" button in the row with Subpart H – to begin entering data.

Subpart H: Reporting Instructions (1) SEPA United States Environmental Protection B HOME FACILITY REGISTRATION FACILITY MANAGEMENT DATA REPORTING 🕜 e-GGRT Help GEMax (2010) Suppart H: Cement Production Using e-GGRT for Subpart H reporting Subpart Overview The EPA Administr OVERVIEW OF SUBPART REPORTING REQUIREMENTS defers collection o Subpart H requires affected facilities to report carbon dioxide (CO2) from each inputs to emission Gement kin. First, use this page to identify each cement kin and then enter Greenhouse gas (GHG) data required by Subpart H for each cement kin and for your facility. For additional information about Subpart H reporting, please use the e-GGRT reporters. The rule Federal Register; a the rule is available <http://www.epa. emissions/CBLhtml Help link(s) provided. rule, e-GGRT is no categorized as inp 7

On the next page, you will see a question mark in the left hand corner of the screen in the blue side bar along the web form. By clicking here, you can get additional help, or link to Reporting Instructions for Subpart H (complement and supplement this webinar).



This webinar is designed to be a tutorial. In preparing to use the e-GGRT forms to report, you could begin by reviewing this webinar and then just walk through the Subpart H Reporting Instructions.

You should also refer to the e-GGRT Reporting Instructions if you have a specific questions about how to enter information as well.

This slide is what the Reporting Instructions screen looks like for Subpart H. You can choose one of the three main topics:

--Using e-GGRT to Prepare Your Subpart H Report;

--Using Subpart H Calculation Spreadsheets; and

--Subpart H Rule Guidance;

	ed States ronmental Protection rcy		e-GGRT 🔎
HOME FACILITY REGI		ORTING	Electronic Greenbouse Gas Reporting Tool
🔞 e-GGRT Help	Desai Industries (2010) Subport H: Cement Producti		Helo, Mausani Desai My Profile Logoc
• Using e-GGRT for Subpar reporting	Subpart Overview OVERVIEW OF SUBPART REPORTING R Subpart H requires affected facilities to repo- cement his. First, use that page to dentry Greenhouse gas (GHG) data required by St facility. For additional information about Sub Help link(s) provided.	EQUIREMENTS it carbon dioxide (CO2) from each each cement kin and then enter bipart H for each cement kin and for your	EPA has proposed to defer collection of 2010 data elements used as inputs to emasten equations for orect reporters. (See 75 FR 61550, publicade Geo. 27, 2010). E-CRAT currently reflects this proposal, and EPA will make any adjustments necessary to reflect the final rule.
	SUBPART H SUMMARY INFORMATION FO	R THIS FACILITY # of Operating Cement Kilns	CO2 (metric tons)
Step 2			OPEN
Stop 1	CEMENT KILN SUMMARY NamenD No units have been added	Status ⁶	Delete
Step 1	CEMENT KILN SUMMARY (Cement kilns m	ionitored by CEMS)	
	Name/ID No units have been added	Status	Delete
Step 3	ADD a Cement Kiln Monitored by CEMS Cement Kiln Monitored by CEMS		

You will now be directed to the Subpart H overview page.

The overview page is an important page you that will be returning to after entering required data in different forms related to Subpart H. The text circled at the top of the page as shown will change as you navigate within the Subpart H reporting module – so this is a good way to check and understand which form you are on.

The Subpart H has there are 3 main sections where you will need to enter Subpart H specific data.

The first section, which should be completed as a second step, is the Subpart H summary information section for this facility. Here you need to enter the emissions from all kilns not monitored by a CEMS, the total number of kilns for the facility, and total number of operating kilns for the reporting year.

The second section is the Cement Kiln Summary table for kilns not monitored by a CEMS. Here you will enter information required for each kiln, such as the kiln identification information , information on methods to determine clinker production quantity, methods to determine calcined content of carbonates, and raw material inputs.

The last section, under CEMENT KILN SUMMARY (Cement kilns monitored by CEMS), is where you will enter production data for kilns that are monitored by a CEMS.

You can enter data in any order. For the purpose of today's demonstration – but this is how we recommend entering information:

-we are first going to enter kiln information for cement kilns not monitored by a CEMS. -then we are going to enter the facility summary information.

Concrete Products (2010) Subpart H: Cement Production Subpart H: Cement Sin Rect de Collex to rest de Subpart H: Cement Sin Rect de Collex to rest de Subpart H: Cement Sin Rect de Subpart H: Submary Reconstruction Subpart H: Submary Subpart H: Submary Reconstruction Subpart H: Sub	and the second second second	LANKS mental Protection ATION FACILITY MANAGEMENT DATA REPORTING	E-GGRT Electronic Greenbaux Gas Reporting Tool Helo: Manaaro Desa (1 My Profile 1 Log
Name/ID Status ⁴ Delete	Using e-GGRT for Subpart H	Subpart H: Cement Production Subpart Verview OVERVIEW OF SUBPART REPORTING REQUIREMENTS Subpart H miguines affected facilities to report carbon doxide (CO) from each cement kin Arts. Lue this page to identify and chement kin and then were Greenhouse gas (GHS) data required by Subpart H for each cement kin and for your facility. For additional information about Subpart H reporting, please use the e-GGRT Help link(s) provided SUBPART H SUMMARY INFORMATION FOR THIS FACILITY	enter colection of data service used as injust to immuno equations, the roter reporters. The rule will be guidantial of the Frederial Requires a network construction, version of the rule is a valiable on our version of enabled on the converse version equations. We support H: View Validation COp (metric: tons)
	N	Name/ID Status ⁴	

So let's start by adding information for a cement kiln at our example facility that is not monitored by a CEMS.

Under the "CEMENT KILN SUMMARY" header, select the "Add a Cement Kiln" hyperlink. This will take you to where you will enter emissions data that are determined by using the clinker based method provided in Subpart H of the rule.

HOME FACILITY REGIST	RATION FACILITY MANAGEMENT DATA REPORTING	Reporting Tool Helio, Marcus Palmer My Profile Logout
e-GGRT Help	FACILITY 7 (2010) Subpart H: Cement Production Subpart Overview + Add/Edit a Cement Kin (CEMS) CONTINUOUS EMISSIONS MONITORING SYSTEMS (CEMS) Please indicate whether or not the emissions for this cement kin are measured by a CEMS. For additional information about reporting CEMS emissions, please use the e- GRT Help Ink(a) provided. CONTINUOUS EMISSIONS MONITORING Is this cement kiln's O'Yes emissions monitored Using a CEMS? No ELECT	*denotes a required field
erwork Reduction Act Burden Sta		e-GGRT RY2010.R.40 H(cem

When you select Add a Cement Kiln – you will open the "Add/Edit a Cement Kiln>> CEMS" form

The form will ask you to identify whether the kiln is monitored by a CEMS or not. For kilns added under this summary table the question will default to "NO." You do have the option to change your response. For this example, we are first entering a kiln not monitored by CEMS.

So let's select "No" here and again "SAVE" this information to move on to the next form.

CONTRACTOR	RATION FACILITY MANAGEMENT DATA REPORTING	E-GGRT Electronic Greenbouse Gas Reporting Tool Helo, Marcus Parer Mr Profile Logod
e-GGRT Help Using e-GGRT for Subpart H reporting	FACILITY 7 (2010) Subpart H: Cement Production Subpart Overview = Add/Edit a Cement Kin Estimation Method RAW MATERIAL ESTIMATION METHOD Please indicate how you will estimate COs emissions from raw materials for this kin. For additional information about these methods, please use the e-GGRT Help link(s) provided. METHOD FOR ESTIMATING ANNUAL COs Annual COs emissions for * O based on consumption of individual raw materials consumption Observed on the amount of raw kin feed consumed annual	* denotes a required field
perwork Reduction Act Burden Sta	CANCEL SAVE	e-GGRT RY2010.R.40 H(metro
		12

After you hit "SAVE" you will be directed to the Estimation Method Form for Raw Materials.

On this form select the method used to estimate Annual CO2 emissions from raw material consumption for each kiln.

You can estimate these emissions based on individual raw material consumption or based on the amount of raw kiln feed consumed annually.

For this example, this kiln is using a method "based on consumption of individual raw materials" so that is what we will select as shown by the arrow labeled number 1.

Again be sure to hit the green "SAVE" button to accept your selection and move on to the next form as shown by arrow 2.

HOME FACILITY REGIS	TRATION FACILITY MANAGEMENT DATA REPORTING		Electronic Greenhouse Gas Reporting Tool
e-GGRT Help Loang e-GGRT for Subpart H reporting	H-Cement 1 (2010) Subpart H: Cement Production Subpart Overview = Add/Edit a Cement Kills		Hello, Marcus Palmer My Profile Lo
	CEMENT KILLI INFORMATION Subpart H requires a facility to uniquely identify each cement kin information described bails for each. For additional information ab editing a cement kin, please use the e-GGRT Help Ink(s) provided	out adding and	* cenotes a required field
	UNIT INFORMATION		
	Name or ID*	(40 charac	ters maximum)
	Description (optional)		1
in the second	Type Cement Kin		
	RAW MATERIAL		
	Name		Dele
2	ADD a Raw Material		
	CONTINUOUS EMISSIONS MONITORING		
3	Is this cement kiln's [•] O Yes emissions monitored using a CEMS? [©] No		
	METHOD FOR ESTIMATING ANNUAL CO:		

Next you will proceed to the "Add/Edit a Cement Kiln" information form. Here this form has 5 main sections.

In the first section, add the kiln identification number and/or identification name.

In the second section, if you selected a method for estimating annual raw material CO2 emissions using consumption of <u>individual</u> raw materials, select "ADD a Raw Material" to list the materials on this page - this is consistent with equation H-5 in the rule. This section will only appear if you selected this method on the previous form.

In the third section, confirm that the unit is not monitored by CEMS. If you choose to make the switch to CEMS at this point, you still have the option to choose "Yes" and update your answer to this question. You will lose any previously entered information on raw materials.

Finally, on this page, confirm the method for estimating annual CO2 emissions for raw material consumption at this kiln. This answer should match your previous answer, but if that was incorrect, you have the opportunity to update you answer here.

HOME FACILITY REGI	STRATION FACILITY MANAGEMEN	T DATA REPORTING	Electronic Greenhouse Gas Reporting Tool Hello, Marcus Palmer My Profile L
e-GGRT Help Using e-GGRT for Subpart H reporting	H-Cement 1 (2010) Subpart H: Cement Subpart Overview = Add/Edit a		
	information described below f	N to uniquely identify each cement kin and provide the or each. For additional information about adding and use the e-GGRT Help link(a) provided.	* denotes a required field
	UNIT INFORMATION		
	Name or ID*	(40 o	haracters maximum)
	Description (optional)		4
	Туре	Cement Kiln	
	RAW MATERIAL		
		Name	De
2	ADD a Raw Material		
N.	CONTINUOUS EMISSIONS MO	DNITORING	
	Is this cement kiln's	OYes	
	emissions monitored using a CEMS?	⊙ No	
		9101111111201111	

Once again, as a reminder. The 2nd step only applies to kilns that calculate raw material CO2 emissions using the consumption of each raw material individually.

Since we indicated that we are using this method for this kiln, we need to add information about each material to complete data entry for this form.

Let's select the blue hyperlink "ADD a Raw Material" to enter this information as shown by the arrow number 2.

EPA Enviro Agence IOME FACILITY REGIS		E-GGRT Electronic Greenhouse Gas Reporting Tool
		Hello, Marcus Palmer My Profile Logo
e-GGRT Help alog e-GGRT for Subpart H	H-Cement 1 (2010) Subpart H: Cement Production Subpart Overview + Add/Edit a Cement Kn+ Raw Material	
	RAW MATERIAL INFORMATION Subpart H requires a facility to identify each raw material consumed in those kilns where Cor emissions from raw materials are to be estimated based on consumption of individual raw materials. For additional information about the data collected on this page, please use the e-GGRT Help link(s) provided.	*denotes a required field
	RAW MATERIAL Name or Description*	
	CANCEL	
enwork Reduction Act Burden St	atement Contact Us	e-GGRT RY2010.R.42 H(mate

After clicking on ADD a raw material, you will be directed to this form to enter the name for each raw material.

Once you enter the name, remember to hit the green "SAVE" button and you will be directed back to the previous kiln information form.

information described below	ON to uniquely identify each cement kiln and provide the for each. For additional information about adding and use the e-GGRT Help Ink(s) provided	d feid
UNIT INFORMATION		
Name or ID	002 (40 characters maximum)	
Description (optional)	Preheaten Precalciner	60
Type	Cement Kin	
Cal Ply ash Cal Limestone Cal osy		*
Car clay		*
ADD a Raw Material		
CONTINUOUS EMISSIONS M	ONITORING	
Is this cement kiln's		
emissions monitored using a CEMS?		
emissions monitored using a CEMS? METHOD FOR ESTIMATING A		

Once you have completed entering this kiln's information, click the green "SAVE" button to accept your entries and selections and hit the Blue "BACK to Overview" to return to the Subpart H overview page.

HOME FACILITY REGIST	States mmental Protection RATION FACILITY MANAGEMENT DATA REPORTING	Electronic Greenbouse Gas Reparting Tool Helio, Marcus Palmer M/ Profile Logod
😧 e-GGRT Help	H-Cement 1 (2010)	
Using e-GGRT for Subpart H	Subpart H: Cement Production	
	Subpart H requires affected facilities to report carbon dixide (CO2) from each cement kin. First, use this page to identify each cement kin and the meter Greenhouse gas (GHG) data required by Subpart H for each cement kin and for your facility. For additional information about Subpart H reporting, please use the e-OSRT Help link(s) provided.	for direct reporter. (See 77 R 5130), published Des 37:007 LeG GORT currently intens this proposal and BRA will make any adjustments indeesary to reflect the final rule. Subpart H: View Validation
	SUBPART H SUMMARY INFORMATION FOR THIS FACILITY # of Cement Kilns # of Operating Cement Kilns	CO ₂ (metric tons)
	# of Gement Kuns # of Operating Cement Kuns	OPEN
	CEMENT KILN SUMMARY	
	Name/ID	Status' Delete
		omplete OPEN 🗶
	C2 003 C	omplete OPEN #
		complete OPEN X

When you return to the Subpart H overview page, you should see the kilns you have identified in the cement kiln summary table.

As you can see the "Status" field is still "incomplete" for Kilns 4 and 5 because we have not entered all information for these 2 kilns, including the annual CO2 emissions.

Click the blue "OPEN" button for "Kiln 005" to enter the other remaining required data for this kiln.

e-GGRT Help ung e-OORT for Subpart H potting	H-Cement 1 Subpart H: Cement Production (2011) Suspart Overvier - GHG Int -005	
	GHG DATA AND ASSOCIATED INFORMATION Use this page to earls the GHG data required by Subpart H. Please enter the annual, quartarily, and monthly information shown below. For additional information about the data codewine antibiotogic relates use a GART Hep link(s) provided. Cannual Information Cannot antiper enter and Cannot antiper antiper and Cannot antiper antip	
	CLAY Number of times missing data	
	procedures were used to determine: Monthly quantity of raw material1 (montha) consumed Annual organic carbon content of raw0	
	material feed	
	Number of times missing data procedures were used to determine:	
	Monthly quantity of raw material3 (months)	
	Annual organic carbon content of raw 1 material feed	
	LIMESTONE Number of times missing data procedures were used to determine:	
	Monthly quantity of raw material (months) (months)	
	Annual organic carbon content of raw material feed	

When you click the blue "OPEN" - button you will be directed to the GHG info form for the selected kiln.

The FORM name for this screen shows you which kiln you are entering information for.

You will now be directed to enter information required by the rule based on the frequency with which it is to be reported, beginning with annual information.

Emissions from raw material consumption are calculated using annual quantities based on monthly measurements. Here you will indicate whether missing data procedures were applied for any of the monthly values used to calculate the annual consumption quantity. On this form you will also indicate whether the annual organic carbon content is based on one or more substitute data values.

Once you have entered the annual information, select the blue "quarterly information" button to continue and enter quarterly information.

🔞 e-GGRT Help	H-Cement 1 (2010)	
Using e-GGRT for Subpart H reporting	Subpart H: Cement Production Subpart Overview = GHG info = 005	
	GHG DATA AND ASSOCIATED INFORMATION Use this page to enter the OHG data required by Subpart H. Please enter the annual, quarterly, and monthly information about below. For additional information about the data collected on this page, please use the a-GGRT Help link(s) provided. D Annual Information D Monthly Information D Monthly Information	
	QUARTER 1 CEMENT KILN DUST NOT RECYCLED TO KILN	
	A missing data procedure was used to determine the quantity of cement kiln duat (CKD) not recycled to the kiln	
	A missing data procedure was used to 🗹 (check if true) determine the fraction of non-calcined GaO in CKD not recycled to the kin	
	Method used to determine the fraction of Other Char Make all quarters same to the kin	
	Specify Method used to determine the fraction of non-calcined CG0 In CKD not recycled to the klin	
	A missing data procedure was used to (oheok if true) determine the fraction of non-calcined MgO in CKD not recycled to the kiln	
	Method used to determine the fraction of non-calcined MgD in CKD not recycled	

On the Quarterly Information form, again we are collecting information on methods used and whether missing data procedures were applied to determine any of the cement kiln dust (CKD) information reported under subpart H.

This includes where missing data procedures were applied to estimate -Quantity of CKD not recycled to the kiln or -Fraction of non-calcined CaO and MgO in CKD not recycled to the kiln

Also on this page you should indicate the method that is used to determine the fraction of non-calcined CaO and MgO in CKD, this includes choosing the default provided in the rule.

Once you have entered information for all Quarters, select the blue "Monthly INFO" button at the bottom of this form to continue to the next form to enter information that is reported on a monthly basis. If needed you can also go back and modify annual information that you entered on the previous form.

e-GGRT Help Using E-GGRT for Subpart H reporting	H-Cement 1 (2010) Subpart H: Cement Production Subpart Overview = GHG Info= 005	
	GHG DATA AND ASSOCIATED INFORMATION Use this page to enter the GHG data required by Subpart H. Please enter the annual, quarterity, and monthly information about below. For additional information about the data collected on this page, please use the e-GGRT Help Ink(s) provided. D Generally, Information P Generally, Information	
	Monthly kiln-specific clinker factors were (check if true) used to determine monthly clinker production	
	JANUARY Method used to determine the month's Kiln specific feed-to-olinker ratio v Make all months same clinker production	>
	Method used to determine the fraction of chemical Analysis Maka all months same	
	Method used to determine the fraction of Default 0.0 Make all months same	
	A missing data procedure was used to determine the following for January: Clinker production Fraction of total CaO in clinker Fraction of total MgO in clinker Fraction of non-calcined CaO in clinker Fraction of non-calcined MgO in clinker	
	GUARDERLY INFO	

On the Monthly Information Form, again you will be reporting on methods used and if missing data procedures were applied to determine any of the clinker information reported under subpart H.

For each month identify the methods used to determine:

- Clinker production
- Non calcined fractions of CaO and MgO in clinker

If you have any questions about the information to reported, review the monitoring and qa/qc sections of the rule to better understand applicable methods.

You will need to confirm use of missing data procedures for each month. This screen shows only entry of information for January.

Note, once again, if the methods for determining these parameters are consistent across all months you have the option to select "Make all months same" next to the method entry field and simplify data entry.

Once you have entered information for all months, select the blue "FINISHED" button at the bottom of the form to return to the Subpart H overview page.

(If needed, you can also go back and update any of the "QUARTERLY" information by selecting the blue "QUARTERLY INFO" button.)

	Cranse Invential Protection RATION FACILITY MANAGEMENT DATA REPORTING	E-GGRT Electronic Greenhouse Gas Reporting Tool
e-GGRT Hep Using e-OORT for Subset H mooring	H-Cement 1 (2010) Subpart H: Cement Production Securi Overvier	melo, literca Pierner 10, Pierler
	OVERVIEW OF SUBPART REPORTING REQUIREMENTS Sugart Hispath a signale ballies to report auton dioles (CO) from each ownert kin. Prinz use in signal to barthy local commercial man are of deemouse gas (CHO) cata induited by Subpart in for each ownert kin and the your facility. For addonal information about Subpart H reporting, passa use the -CORT Help limits) provided.	EPA ras process to defin collection of 2010 data dements used as inputs to emission exactions for direct reporters. (Been & R.R.2130, published Dec. 27, 2010). E-0047 currently refers this processil and EPA will make any equatments necessary to reflect the fine rule.
	SUBPLIET IN SUMMARY INFORMATION FOR THIS FACILITY # of Cement Kine # of Operating Cement Kine.	Subpart H: View Validation
		OPEN
	CEMENT KUN SUMMARY Name/D	Status' D
		ompiete Concert
		omplete Concol
	1. A	CHEN CHEN

When you return to the subpart overview page, you will see the screen now indicates that data entry for Kiln 005 is complete, which is good.

HOME FACILITY REG	rd States commental Protection cy ISTRATION FACILITY MANAGEMENT DATA REPORTIN		Electronic Gre		2
e-CGRT Help Using e 00RT for Subget H scoring	H-Cement 1 (2010) Subpart H: Cement Production Subpart Overvie Overview OF subpart пероктно песоиле: Вырат нациязалься бытае в протаково по гляс, сая права баста на солити на обрат перине в) Вырат н бу каго селестка но бу лог Вырат н перотор разва цаята н-СоКТ нер год	Ioride (COL) from each cement klin. 1 enter Greenhouse gas (GHG) data facility. For additional information about	EPA nas process 2010 data sistema emission equation (See 12 # 42 1320 2010) E-004T cu process, end EPA aquatiments nace rule.	d to defer collection in visio de inquite in visio di est reporte in visione de collection in visione de collectione in visione de collectione in visione de collectione inservicione de collectione inservicione de collectione inservicione de collectione de collectione de collectione de collectione de collectione de collectione de collectione de collectione de collectione de collectione de collectione de collectione de collectione de collectione de collectione de collectione de collectione de colle	i of S S
	SUBPART H SUMMARY INFORMATION FOR THIS I S OF Cement Kins	# of Operating Cement Killis	CD. (micro)		
	CEMENT KILN SUMMARY Namero Cji 002	Co	Status'	OPEN	Deista X
	C# 005		mplete omplete	OPEN	×

You should also periodically review the Subpart H validation messages. In the upper right corner of the screen is a Subpart H Validation box.

When you have completed all required data entry and there are no critical data entry errors this box will turn green and read "no validation messages."

In this case the validation box is red, indicating that there is information missing or there are errors.

You can click on the "view validation" hyperlink pointed out by the arrow to open the Validation Report page and identify more specifically where errors may exist.



We are now looking at the Subpart H Validation Report. There are many validation messages that could be generated based on the data you have entered for subpart H.

This is not a complete list, but it shows some of the messages that you may come across. In this example, the messages are grouped with 3 categories.

The first category provides facility-level validation messages. Currently this category is showing all those data elements as incomplete because we have not yet entered facility-level information.

The second category provides CEMS monitoring location (CML) validation messages. We have not added a CML yet, and therefore have no CML validation messages.

The third category provides the equation-level validation messages. This screen shows a data quality issue for Kiln 2 – indicating that the cement production quantity that we entered is outside of the an EPA estimate range. Users who see this message should review the information entered for Kiln 2 cement production and verify that the number is correct and there are no errors or typos. If upon review, you believe the data to be correct, then you should still submit that data.

In this third category section, we also see a data completion message. The message indicates that the Kiln information for Kiln 4 is incomplete.

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Notice that, for your convenience, each message text is a hyperlink to the e-GGRT page where the warning was generated. Now let's return to the Subpart H Overview page and address these validation messages.

.. . ..

🕜 e-GGRT Help	H-Cement 1 (2010)			
Using e-GGRT for Subpart H reporting	Subpart H: Cement Production Subpart Overview			
	OVERVIEW OF SUBPART REPORTING REQU Subpart H requires affected facilities to report kin. First: use this page to identify sach demen (GHG) data required by Subpart H for each dem additional information about Subpart H reporting, provided.	arbon dioxide (COs) from each cement t kin and then enter Greenhouse gas ent kin and for your facility. For	elements used as input for direct reporters. (5 Dec. 27, 2010.) E-GG	seter collection of 2010 cata ts to emission equations kee 75 FR 61380, published RT ourrently reflects this imake any adjustments e final rule.
	SUBPART H SUMMARY INFORMATION FOR THI	S FACILITY	Subpart H:	View Validation
	# of Cement Kilns	# of Operating Cement Kilns	CO ₂ (metric to	ns)
	CEMENT KILN SUMMARY Name/II C# 002 C# 003 C# 004 C# 005 ADD a Cement Kin CEMENT KILN SUMMARY (Cement Kins monito Name/ID Status'		Status ¹ Complete Complete Complete Complete	OPEN X OPEN X OPEN X OPEN X

In the interest of time, we have jumped a bit ahead. So let's assume that we have completed data entry for Kiln 4 and corrected the cement production data for Kiln 2.

At this time, we have addressed all the equation-level data validation messages. Now we need to enter the facility-level information. Click the blue "OPEN" button on the Subpart H Summary Information table.

HOME FACILITY REGIST	TRATION FACILITY MANAGEMEN	DATA REPORTING	Electronic Greenhouse Gas Reporting Tool Hello, Marcus Palmer My Profile Logout	
(?) e-GGRT Help	H-Cement 1 (2010)			
Using e-GGRT for Subpart H	Subpart H: Cement Subpart Overview = Subpart H			
reporting	autoration autopart in	Summary mornation		
		RMATION FOR THIS FACILITY	900,000.0	
	additional information about th	o report the facility information described below. For e facility information required by Subpart H, please use	Annual CO ₂ process emissions from cement	
	the e-GGRT Help link(s) provi	Sed.	manufacturing (metric tons)	
	EQUATION H-1 SUMMARY AN	D RESULT	4	
		5 00 00		
		CO ₂₀₀₀ = 2 CO _{200,m} + CO ₂₀₀		
		Hover over an element in the equation above to reveal	Use the OPTIONAL e-GGRT Calculation calculate the Equation Result that is ent	
	Annual CO2 process	900000 (metric tons)	Inputs to emission equations for direct not currently collected by e-GGRT con	reporters a
	emissions from cement manufacturing	Use Subpart H equation spreadsheets to calculat	signed Final Rule Deferring Collection of	f Inputs. S
			http://epa.gov/climatechange/emissions	/CBI.html
	Annual cement production	6522000 (tons		
	for the facility			
	TOTAL NUMBER OF KILNS			
	Number of kilns	6		1

You will now be directed to the Summary Information form.

Here you enter the total Annual CO2 Emissions for kilns not monitored by CEMS. Remember you can download worksheets EPA has developed to calculate emissions using the clinker based methodology in Subpart H. Remember use of these worksheets is optional.

Next enter the annual cement production at the facility, the total number of kilns at the facility (both CEMS and non-CEMS) and the number of kilns that were operating during the reporting year as shown by arrow number 2 and number 3.

As with previous entries, remember to click SAVE to store this information and return to the Subpart H overview page.



Please note that if you used the Optional Calculation Spreadsheets during our Sandbox Testing opportunity earlier this year, those spreadsheets may have change since then. Be sure to download the most recent and correct version of the calculation spreadsheets from the e-GGRT Subpart H Help Content.

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

This means that in certain web forms in e-GGRT, you can view a required equation, but you will only enter the RESULT of that equation into e-GGRT. If you are using the XML upload option, the XML schema will also only include the RESULT of the equation as a data element.

The inputs of the equation are NOT currently collected by e-GGRT. EPA is providing OPTIONAL calculation spreadsheets that you can use to perform the calculations called for in the emission equations. These Microsoft Excel spreadsheets can be downloaded and opened on your own computer. Just click the hyperlink on the web-form to view and download the appropriate calculation spreadsheet for the equation you are working on. You can enter the data, including equation inputs, necessary to perform the calculation for the equation, and the spreadsheets will calculate the result for you. Once you have calculated the result, enter the result on to the e-GGRT web form.

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

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Subpart H - C	ement Production - Calculating CO ₂ P READSHEET FOR FACILITY RECORDICE Version - GORT Fr200.0.02	Process Emissions from	All Kins at the	e Facility Using Eq	uation H-1										n
and/or salcula screen and se changes to an report to EPA	Today's daw (022000) ref is protected and contains locked cells tions. To evenove this protection and alte ect "Upprotect Sheet," When promped for upprotected sheet could result in incorree For additional help, visit the Microsoft E	r this spreadsheet, right- r the password, type "GH t calculations and that po	fick the "worksh G* and click "OK ru are responsibl	eet" tab near the bo Please note that is for the accuracy	of the data you										
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Annual CO, p	rocess emissions from all kilns at the	facility (mount of the	esult from Equ	ation H-1											1
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-	emissions of CO ₂ from seman menufernance, metric tonal														
		Easter this walke													10

This is a screenshot of the Equation H-1 Worksheet that you could use to calculate annual CO2 emissions from all kilns at the facility.

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

SUBPART H SUMMARY INFORMATION FOR THIS FACILITY COV (metric tons) 5 4 500.000 OPEN CEMENT KILN SUMMARY CEMENT KILN SUMMARY Name/ID Status' Delete C 002 Complete C 003 Complete C 005 Complete C 00PEN SE	HGGRT Help Ie-GGRT for Subpart H	H-Cement 1 (2010) Subpart H: Cement Producti Subpart Overview	on			
Messages I SUBPART H SUMMARY INFORMATION FOR THIS FACILITY # of Cement Kilns # of Operating Cement Kilns CO2 (metric tons) open 5 4 \$00,000 open Open CEMENT KILN SUMMARY Name/ID Status' Delete Open Call Complete Open Status' Delete Call Complete Open Status' Delete Open Status' Open Status' Open Status' Open Status' Open Status' Open Status'<		Subpart H requires affected facilities to repr kin. First, use this page to identify each ce (GHG) data required by Subpart H for each additional information about Subpart H repor	ort carbon dioxide (COs) from each cement ment kin and then enter Greenhouse gas cement kin and for your facility. For	elements used as in for direct reporters Dec. 27, 2010.) E-C proposal, and EPA	puts to emission equation (See 75 FR 31350, pub IGRT ourrently reflects in will make any adjustment	ons Haned this
5 4 900,000 OPEN CEMENT KILN SUMMARY Name/ID Status ³ Delete C/R 002 Complete OPEN 36 C/R 003 Complete OPEN 36 C/R 004 Complete OPEN 36 C/R 005 Complete OPEN 36			THIS EACH ITY			1
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After completing entry of all information for all non-CEMS units and cross-checking validation messages, we get confirmation that, so far, our Subpart H information is complete and validated.

See that that Validation Bar has now changed – as circled on the screen. We see a checkmark symbol replacing the exclamation mark. We have successfully addressed all the validation messages.

Now let's turn to adding information for a cement kiln that is monitored by a CEMS. As with the kilns not monitored by CEMs, we must begin by first adding a kiln.

Click on the "Add a Unit Monitored by CEMS" hyperlink as shown by the arrow at the bottom of the screen.



When you select Add a Cement Kiln – you will open the "Add/Edit a Cement Kiln CEMS" form.

On this form, you will be asked to confirm that the unit is monitored by CEMS. In this case, as you can see by the first arrow, the question will default to the response "Yes."

Since this is true for this kiln, you can accept this default selection.

Make sure to again click the green "Save" button to continue to the next form.

	States mental Protection			e-GGRT 🔑
HOME FACILITY REGIST	RATION FACILITY MANAGEMEN	T DATA REPORTING		Electronic Greenhouse Gas Reporting Tool Hello, Marcus Palmer My Profile Logo
e-GGRT Help Uang e-GGRT for Subpart H nporting	Information described below f editing a cement kiln, please UNIT INFORMATION Name or ID* Description (optional)	Cement Kiln N o uniquely identify each cement i or each. For additional information use the e-GGRT Help link(s) provi 001	about adding and	* denotes a required field maximum)
	CONTINUOUS EMISSIONS MC Is this cement kin's " emissions monitored using a CEMENT R Back to Overview SAV	⊕ Yes O No		

You well then continue to the "Add/Edit a Cement Kiln" form.

Begin by entering the cement kiln name or ID. The description of the unit is an optional field, you can complete it as shown.

Again confirm that the unit is monitored by CEMS and hit the green "SAVE" button.

Hit the "Back to Overview" button to return to the Subpart H Overview form.

e-GGRT Help	H-Cement 1 (2010) Subpart H: Cement Produc	ction					
reporting	Subpart Overview OVERVIEW OF SUBPART REPORTING REQUIREMENTS Subpart H requires affected fabilities to resort carbon dixxide (CCa) from each cement kin, First, use this page to identify each cement kin and then enter Greenhouse gas (CHG) data required by Subpart H for each cement kin and for your fability. For additional information about Subpart H reporting, please use the e-GGRT Help link(s) provided						
			1	Subpart H: Vie	w Validation	1	
	SUBPART H SUMMARY INFORMATION FO		1		w Validation		
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	Of Cement Kilns S CEMENT KILN SUMMARY	# of Operating Cement Kilns 4 Name/ID	Statu Complete Complete Complete	20. (metric tone) 900,000	OPEN OPEN OPEN	Delete X X	

After clicking SAVE, you will return to the Subpart H Overview page.

You should now see the kiln you just entered (Kiln 001) in the CEMENT KILN SUMMARY (kilns monitored by CEMS) table as shown by the arrow.

Note the Status of this kiln is incomplete, this is because we still have some information to enter so let's click OPEN to complete this entry.

Subpart I	H: Enter Production Information	And souther
🕑 e-GGRT Help	H-Cement 1 (2010) Subpart H: Cement Production Subpart Overview = GHS Into - 001	The
	GHG DATA AND INFORMATION Use this page to enter the GHG data required by Subpart H for a cement kiln that is monitored by CBMS. For additional information about the data collected on this page, please use the e-CGRT Help Ink(s) provided.	
N	JANUARY A missing data procedure was used to determine the clinker production	
Enter for each month	Clinker production Clinks all months same	
	A missing data procedure was	
	Clinker production (tons)	
	MARCH A missing data procedure was used to determine the clinker production	
	Clinker production (tors)	
	APRIL A missing data procedure was	
	Clinker production (tons)	

After clicking OPEN, you will go to the "GHG info" form for Kiln 001.

For each kiln using a CEMS - for each month indicate whether missing data procedures were applied to estimate clinker production.

In addition, enter the clinker production for each month as shown. Note the units.

You also have the option to make all months the same if this is the case for some data.

When you have entered all the required monthly information, scroll down this form and hit the green "SAVE" button and you will return to the Subpart H overview page.

ng e-GGRT for Subpart H	ment 1 (2010) part H: Cement Pro	duction			
orting OVE Subs kiln. (GHO	RVIEW OF SUBPART REPORT art H requires affected facilitie First, use this page to identify 4 3) dats required by Subpart H 6 ional information about Subpart	s to report carbon dior each cement kiln and or each cement kiln ar	ide (CO2) from each ceme then enter Greenhouse gas to for your facility. For	elements used a for clinect report Dec. 27, 2010.) proposal, and E	ed to defair collection of 2010 cats is injust to emission equations ars. (See 75 FR 61350, published B-GGRT currently reflects this PA will mass any adjustments fact the final rule.
				Subpa Messa	rt H: No Validation Jes
SUBP	RT H SUMMARY INFORMATIO		Perating Cement Kilns	CO ₂ (met	to total
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C2.0	NT KILN SUMMARY	Name/ID		Status ¹ Complete	OPEN #
Da o	03			Complete	OPEN X
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CENE	D a Cement Kiln NT KILN SUMMARY (Cement k	ilns monitored by C Name/ID	EMS)	Station	Delet
CHECK C				Complete	OPEN 🗱
∳ AD	D a Cement Kiln Monitored by (CEMS			

When you return to the Subpart Overview page, you should note that the Cement Kiln Summary indicates that information for Kiln 001 is now complete. This good.

But notice now that there is a NEW table at the bottom of the overview page which did not exist before. This table is titled the "CEMS MONITORING LOCATION SUMMARY" table. This table appears when you add a unit monitored by CEMS. This is where we will add the additional information required by Subpart C that is associated with use of the Tier 4 methodology, including annual emissions.

In this new table, you will need to add each unique CEMS monitoring location that is associated with one or more of the units identified in the CEMS UNIT summary table.

Lets proceed with adding the CEMS monitoring location associated with Kiln 001. To begin with must first "ADD a CEMS Monitoring Location" as shown by arrow number 2. So let's click on this hyperlink.

Subpart H: En	ter CM	LG	HG Emis	sions	THE PROTECTION
U BOGRI Neg	Subpart H:Cement		n Location		
	CONTINUOUS EMISSION M	ONITORING SYS		124.800.0	
	Use this page to uniquely ide and provide the annual GHG i the "ADD/REMOVE a Procee process unit(s) monitored by	ntify each CEMS emissions and oth is Unit" link at the this CEMS Month	Monitoring Location (CML) Summary er information described below. Use bottom of the page to identify the oring Location (CML) Summary. For on this page, please use the e-GGRT	Total CO: true CEMS for explorable Part 75 methodology) (metho: true) 10.000.0 Total Begere: CD: (metho: true)	
				114.800.0 Total Non-Belgenic CO2 (methic turis)	
	CONFIGURATION CEMS Monitoring*	PER Alumer Miles	140	characters maximum)	
	Location Name/ID	CMC-Super Kan	1		
	Description (optional)		5		
	Configuration Type*	Single process/p	rocess unit exhausts to dedicated stack	~	
	Types of fuel combusted in the unit(s) monitored by the CEMS		(200	characters maximum)	
	TIER 4 METHODOLOGY INFO	ODMATION			
	Calculation Methodology* Start Date		3		
	Calculation Methodology* End Date	12/31/2010			
	CUMULATIVE CO2 EMISSIO	15			
		Quarter 1	31200 (metric tons)		
		Quarter 2	31200 (metric tons)		
		Quarter 3	31200 (metric tons)		
		Quarter 4	31200 (metric tons)		
	ANNUAL CO2 EMISSIONS				

Now you will be on the "Add/Edit a CEMS Monitoring Location" form.

Let's review the key elements of this longer form. This form reflects the reporting requirements for using the Tier 4 method required by Subpart C. As you proceed entering information on this form, dropdown menus and automated calendars are provided to facilitate data entry.

This screenshot shows the top half of the form. The first step shown by arrow 1 is naming and identifying the type of CEMS configuration. Is the CEMS unit monitoring a single process unit or monitoring multiple kilns sharing a common stack?

In this example, we have a CEMS that is monitoring a single unit, the Kiln 001 furnace. So we are calling our location Kiln 001 as well and selecting the appropriate configuration from the dropdown menu as shown.

You should also indicate the types of fuel combusted at this location.

Next as show by arrows 2 and 3, confirm the start and end dates associated with this location and add the quarterly CO2 emissions, annual CO2 emissions, and any biogenic emissions.

All entries must be completed as appropriate for this CEMS monitoring location.

Subpart H: En	ter CML G	HG Emissions (2)	AND STATES
	ANNUAL COVEMISSIONS Total annual COV mass emissions measured	(metric sone)	
	by the CEMS Check this box to indicate that the emissions reported for the CEM S include emissions calculated according to \$3.35(a), (4)(viii) for a slipstream that bypassed the CEM S		
	Total annual biogenic COs mass emissions	(metric tone)	
	Total annual non-biogenic COx mass emissions (includes fossil fuel, sorbent, and process CO ₂ emissions)	(metris tone)	
	EQUATION C-10 SUMMARY AND RESULTS		
		r N ₂ O +0.001 + (HI) ₄ + EF	
Let a set	How o	er an element in the equation above to reveal a definition of that element.	
		Hu and NuQ emissions from only compusition directly below. If there are no computation is in this CEMS Monitoring Location, prease enter 0.	
	Total CH+ emissions	General Control of C-10 spreadsheet to calculate	
	Total N ₂ O emissions		
N	ADDITIONAL EMISSIONS INFORMATION		
G	Total number of source operating hours in the reporting year	[(rount)	
	The total operating hours in which a substitute data value was used in the emissions saloulations for CO ₂ concentration	(100/8)	
	The total operating hours in which a substitute data value was used in the emissions calculations for stack gas flow rate	(10/18)	
	The total operating hours in which a substitute data value was used in the emissions calculations for stack gas moisture content (if moisture correction is required and a	(80.08)	
	continuous moisture monitor is used)		
K	CEMS MONITORING LOCATION PROCESS	JNIT 5	25
ADD	Process Unit Hame/dentifier		35

One more thing to note – here is were you will indicate if a slipstream that bypasses your CEMS exists and if you followed methods in the rule to report these emissions.

This screen shows a continuation of this form, so as you scroll down the form you will see these additional data entry cells for total annual CH4 and N2O emissions and additional emissions information.

You can again download the optional calculation worksheet C-10 (using the link provided) to determine some of the data inputs required to calculate the total emissions, which you will then enter into these cells.

After completing all of the information on this page, the next step is to link the emissions monitored by the CEMS to the appropriate cement kiln(s).

To do this, go to the end of the form to the table marked by Arrow 6, and click the "Add/Remove a process unit that exhausts to this CEMS monitoring location" hyperlink.



This selection will open up to this simple form you see here.

We have only entered <u>one</u> cement kiln that is monitored by a CEMS, so e-GGRT only displays one kiln – 001- for us to choose from. Click the checkbox to link the CEMS monitoring location to a process unit that is monitored by CEMS, and then click SAVE.



As you can see, we have now linked the CEMS monitoring location to Kiln number 001. This means that the emissions from Kiln "001" are vented to the stack that is monitored by this CEMS.

If multiple units vent to a single stack, then you can add additional units by clicking on the ADD/REMOVE a process unit hyperlink. Because our example configuration type is a single process unit that exhausts to a dedicated stack, we only link Kiln 001 to this monitoring location.

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

Subpart H: 0	Complete and Repo	rt		AND STATES - LONG
Constant response in the second secon	H-Cement 1 (2010) Subpart H: Cement Production Subpart Overview OVERVIEW OF SUBPART REPORTING REQUIREMENTS Budget H requires affected bolines to report attor donine (CO), from sort cement (III, Thru, use to signate biothery and camerit (III and the refer (CO), from sort cement (III, required by Subpart H for sort cement (III and the refer (CO), for addressing (CH-C) ceta subpart H reporting, preserve and the 4-067T help (Int), provide.	EPA has proces 2010 bains einer (Ser 11 PA 015) VE 2010) B-00 PT procest and EP	ed to defer collection of this used as inducts to not direct encoding. (2) publiced Dec. 57 country infector this RA will make any cases/ to infectore final	Real PROTEINS
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	CEMEXIT IGUE SUMMARY (Cement kins monitored by CEM 5) Nation IG (2010) ACO a Cement Kin Nontored by CEMS	Status' Compete	Delete OPEN X	
	CENE S MONITORING LOCATION SUMMARY CRU CRU Remotestation CRU			
(3)REFURN	e Tastité Overvie			38

Now when you return to the Subpart Overview Page – you should confirm that e-GGRT has accepted the information for the CEMS monitoring Location you just added. This good, as you can see, the entry shows the name of the CEMS monitoring Location "Kiln 001", the correct configuration, the monitored unit-001, and the annual emissions total. The status of this entry is now complete.

After entering all information for all units and checking validation messages, we get confirmation that our Subpart H information is complete and validated.

We can return to the Facility Overview Page to Generate a Report and view GHG details.

e-ccrt Help		t 1 (2010) Greenhouse Gas Data Repo ty - Facility or Suppler Overview	orting			PROTE
	This page a supplier will buttons.	OR SUPPLIER OVERVIEV/ slows job to add the source and/or supplier or libe reporting, then to access those data report eporting is complete, job can initiate the annua in this age by using the SUBMIT button (or R	rting screens using the OPEN al report review and submission	COs equival biogenic) to (metric tons	2,787,500 tent emossions (excluding on source categories 0 469,800	
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When you return to the Facility Overview Page, you can review the details of your Subpart H emissions by clicking on the blue "View GHG Details button."

In addition to reporting information for Subpart H, cement facilities will also need to enter information under Subpart C – General Stationary Fuel Combustion Sources. Combustion sources may include combustion emissions for kilns that are not monitored using a CEMS and emissions from other process heaters. Data entry for Subpart C is covered in a separate webinar.

	Inter States ency ency Enclustry MANAGEMENT DATA REPORTING Execution Execut	e Gas g Tool
е-ссят нер	H-Cennent 1 (2010) e-GGRT Greenhouse Gas Data Reporting Sett Footily - Facility or Lappier Overview M-CLUTT OR Support Overview Autorstan reporting is complete, jou can indiate the annual report facilities and Submassion process from thin gage oy using the Subdivit To be uncertained to the submassion process from the gage oy using the Subdivit To be uncertained to the submassion process from the gage oy using the Subdivit To be uncertained to the submassion process from the gage oy using the Subdivit To be uncertained to the submassion process from the gage oy using the Subdivit To be uncertained to the submassion process from the gage oy using the Subdivit To be uncertained to the submassion process from the game of the subdivit to the submassion process from the game of the subdivit to the submassion process from the game of the subdivit to the submassion process from the game of the subdivit to the submassion process from the game of the subdivit to the submassion process from the game of the subdivit to the subdivit to the submassion process from the subdivit to the subdit to the subdivit to the subdit to the subdivit to the su	469,800 469,800 Ioni tooce 0
	RESCRT D.17.2 2019 Reporting Source or Suppler Category Validation Messages? Subpart Reporting Suppler 2denical Information None Green Suppler 2denical Stationary Rull Computers None Green	
	Subject H—Cenert Production Accel and the subject of the subject	-

Once you have entered all information for Subparts A, C, and H, you can click on the blue "Generate/Resubmit" button on the Submit Annual Report table as shown



This button will take you to the Generate Report page. Click on the green Generate Report button.



E-GGRT will being processing your annual report, which may take several minutes. This page gives you the option to review your report.



This is an example screen if you click "View Report" button on previous page.



This concludes our training session for today. We hope this overview has helped you better understand how to navigate and enter information using the e-GGRT reporting tool.

This slide lists some important links that you may want to refer to later.