



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

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

Updated 2/23/12 1

Hello, and welcome to the EPA training webinar on EPA's electronic Greenhouse Gas Reporting Tool or "e-GGRT".

Today's webinar will focus on using e-GGRT to report your greenhouse gas data under Subpart NN, Suppliers of Natural Gas and Natural Gas Liquids. This webinar includes information on how to submit your subpart NN GHG report only. General information on using e-GGRT to report GHG data, including certifying and submitting reports will not be covered in today's webinar.



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

2

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

You will see a number of e-GGRT screenshots throughout this webinar.

Webinar Outline / Overview



- Subpart NN Reporting
 - Selecting a Subpart
 - Reporting Data - Fractionators
 - Reporting Data - LDCs
- Questions

3

This slide gives an overview of the information we'll be discussing today. We will not be discussing how to register a facility in e-GGRT today. We will start with a facility that has already registered and walk you through how to select a subpart, suppliers of natural gas and natural gas liquids in this case, and then walk you through how to use the e-GGRT webforms to submit a GHG report for a natural gas liquids fractionator and a natural gas local distribution company.

You may submit questions in the modal chat window at any time and we will try to answer all the questions that come in by the end of the webinar.

Topics for Today's Q &A



- Please submit questions regarding e-GGRT functionality
- Questions on other topics (requirements of the Greenhouse Gas Reporting Rule, legal issues, etc.) should be submitted to **GHGReporting@epa.gov**

4

All callers and participants in today's webinar will be in listen-only mode. That means that you cannot ask questions over the phone. You can use the chat or questions feature in the webinar tool window to submit written questions at any time during today's webinar. Please limit those questions to e-GGRT functionality. For questions about other topics, for example, specific requirements under Part 98, please submit your questions to ghgReporting@epa.gov

Calculation Spreadsheets, CBI and Inputs



- All elements included in e-GGRT are required reporting elements, as applicable
- E-GGRT currently reflects the rule deferring reporting of inputs to emission equations that was signed by the Administrator on August 19, 2011. A pre-publication version of the rule can be found at the GHG Reporting Program Website:
<http://www.epa.gov/ghgreporting/reporters/cbi/index.html>
- Data elements that have been determined to be CBI must be reported
- Reporting elements that have been determined to be CBI will be protected under the Clean Air Act (Sec. 114 (c)) and EPA regulations (40 CFR Part 2)

5

Before we get started, we would like to summarize how recent rulemakings related to confidential business information and the deferral of the reporting of inputs to equations have impacted the data you are required to report in e-GGRT.

All elements included in e-GGRT are required reporting elements, as applicable.

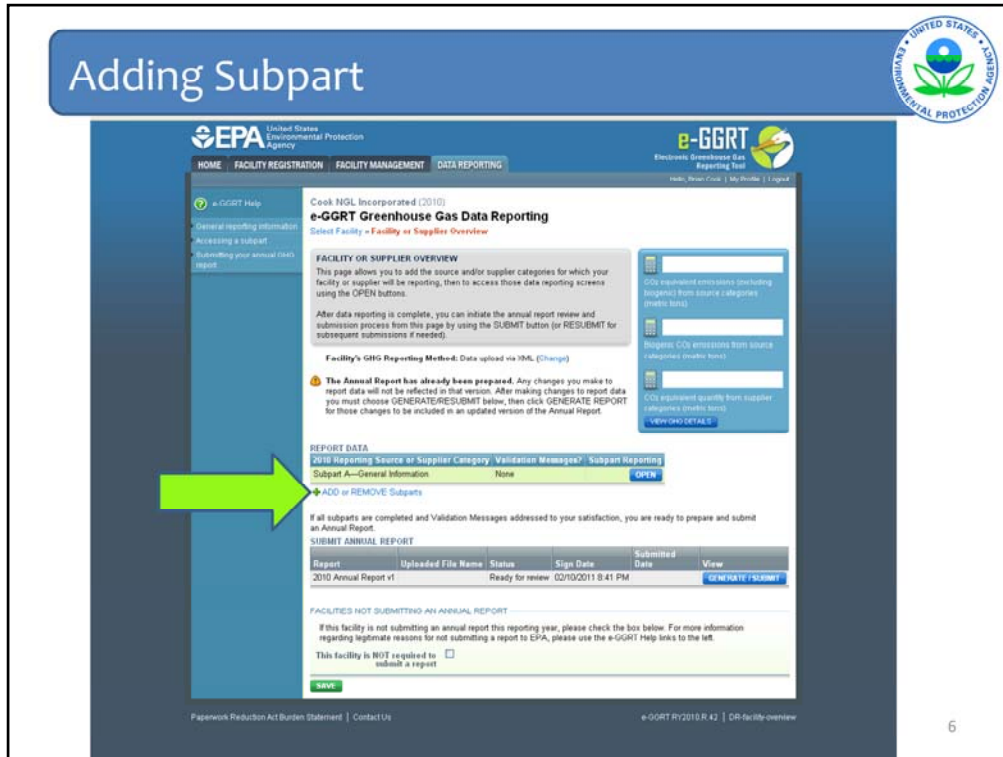
E-GGRT currently reflects the rule E-deferring reporting of inputs to emission equations that was signed by the Administrator on August 19, 2011. A pre-publication version of the rule can be found at the GHG Reporting Program Website:

<http://www.epa.gov/climatechange/emissions/CBI.html>

However, I would just like to note that the rule deferring reporting of inputs to emission equations had no impact on Subpart NN. All data elements that were required for reporting in the final rule are still required for this subpart. The inputs deferral may impact the reporting requirements for facilities who are covered by other subparts of the rule.

Data elements that have been determined to be CBI must be reported.

Reporting elements that have been determined to be CBI will be protected under the Clean Air Act (Sec. 114(c)) and EPA regulations (40 CFR Part 2).



As stated previously, general information on using e-GGRT to report GHG data, including certifying and submitting reports will not be covered in today's webinar.


All suppliers of natural gas and natural gas liquids that are required to report should register in e-GGRT. This process is not shown here. Please consult Subpart NN to determine how to register each facility.

For example, Subpart NN defines a Local Distribution Company as an entity that is regulated as a separate operating company by State public utility commissions. So, if an LDC operates in multiple states, and is subject to the regulations of each state for the pipelines that are within that state's borders, then the operations in each state are considered a separate LDC and the owner/operator of each LDC must submit a separate report.

Additionally, if your facility is both a direct emitter and a supplier and your operations have the same designated representative and are in the same physical location, you may be able, but are not required, to register once in e-GGRT for both the direct emitter and supply operations. Further, you may be able, but are not required, to submit one annual GHG report containing information for both your direct emitter and supplier operations. If the direct emitter and supplier have different designated representatives, or if you will report different information under 98.3 (c) for the direct emitter and supply operations, then you must register and report for your direct emitter and supply operations separately.

We'll assume that you have already successfully registered your facility in e-GGRT and are ready to begin submitting your subpart NN report. To get started, make sure to click the

Adding Subpart: Subpart Selection



REPORTING SOURCE AND SUPPLIER CATEGORIES
Please check the relevant reporting source and/or supplier categories (or "subparts") for this facility. Information about each, any reporting thresholds, and other information can be found in e-GGRT Help and the links to the left.

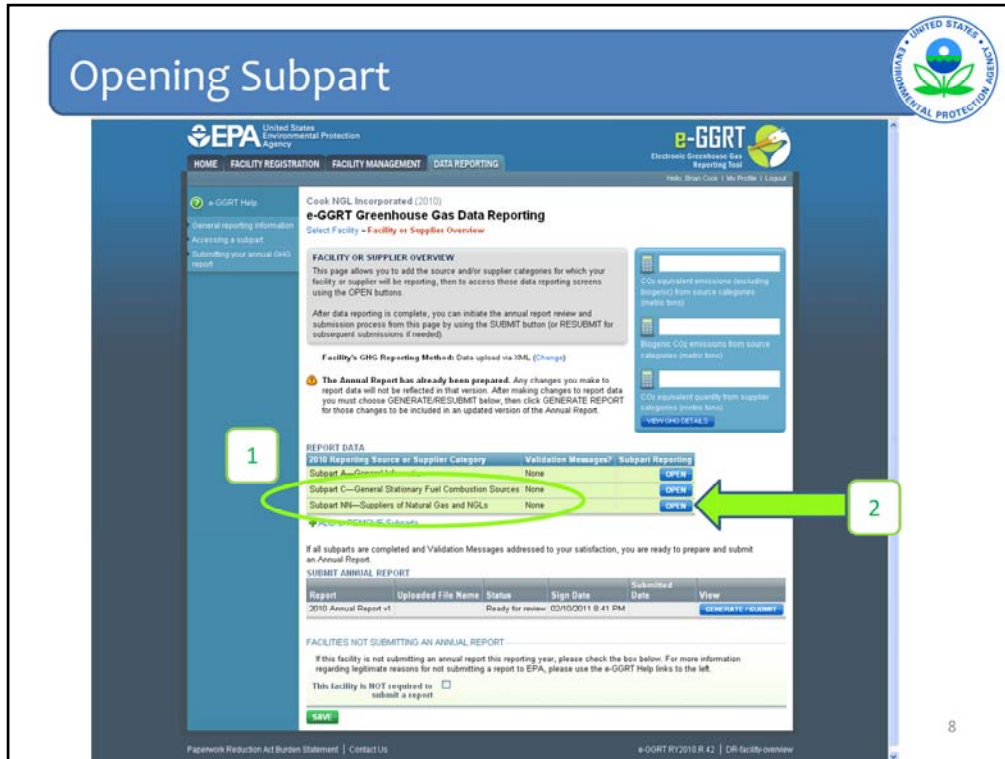
SOURCE CATEGORIES	GENERAL STATIONARY FUEL COMBUSTION
<input type="checkbox"/> D—Electricity Generation Description (SHOW HIDE)	<input checked="" type="checkbox"/> C—General Stationary Fuel Combustion (Standard Reporting) Description (SHOW HIDE)
<input type="checkbox"/> E—Adipic Acid Production Description (SHOW HIDE)	<input type="checkbox"/> C—General Stationary Fuel Combustion (Abbreviated Reporting) Description (SHOW HIDE)
<input type="checkbox"/> F—Aluminum Production Description (SHOW HIDE)	LANDFILLS
<input type="checkbox"/> G—Ammonia Manufacturing Description (SHOW HIDE)	<input type="checkbox"/> HH—Municipal Solid Waste Landfills Description (SHOW HIDE)
<input type="checkbox"/> H—Cement Production Description (SHOW HIDE)	SUPPLIER CATEGORIES
<input type="checkbox"/> K—Ferroalloy Production Description (SHOW HIDE)	LL—Suppliers of Coal-based Liquid Fuels Description (SHOW HIDE)
<input type="checkbox"/> N—Glass Production Description (SHOW HIDE)	MM—Suppliers of Petroleum Products Description (SHOW HIDE)
<input type="checkbox"/> O—HCFC-22 Production and HFC-23 Destruction Description (SHOW HIDE)	<input checked="" type="checkbox"/> NN—Suppliers of Natural Gas and Natural Gas Liquids Description (SHOW HIDE)
<input type="checkbox"/> P—Hydrogen Production Description (SHOW HIDE)	<input type="checkbox"/> OO—Suppliers of Industrial Greenhouse Gases Description (SHOW HIDE)
<input type="checkbox"/> Q—Iron and Steel Production Description (SHOW HIDE)	<input type="checkbox"/> PP—Suppliers of Carbon Dioxide Description (SHOW HIDE)
<input type="checkbox"/> R—Lead Production	

7

On this screen, e-GGRT allows you to select the subparts this facility will be reporting under.

In order to select a subpart, click the check box next to the name of that subpart. Local natural gas distribution companies that deliver 460,000 thousand standard cubic feet or more of natural gas per year and all fractionators should select Subpart NN. Please also review the reporting requirements for Subpart C, General Stationary Fuel Combustion. Facilities that generate 25,000 or more metric tons of carbon dioxide equivalent through combustion processes must report under Subpart C in addition to Subpart NN.

Once you have selected the subparts you will be reporting under, scroll to the bottom of the page and click "SAVE".



After you click “SAVE”, e-GGRT returns you to the “Facility or Supplier Overview” page where the subparts you selected will be listed under the “REPORT DATA” heading, shown at location 1 on the screen.

We won’t have time today to walk you through the reporting requirements for Subpart C, but if you do have to report under Subpart C and are interested in receiving training, you can go to our website:
 download slides from a subpart C webinar similar to this one.

Now let’s proceed with submitting the Subpart NN report. To get started, click the “OPEN” button that corresponds to Subpart NN, shown in location 2.



The first information that Subpart NN requires you to enter is whether you are reporting as a fractionator of natural gas liquids (NGLs), or a local natural gas distribution company, henceforth referred to as an LDC.

To choose your supplier type, open up the drop-down menu and make your selection. Once you have selected your supplier type, click “START”.

From this point onward, the screens that e-GGRT will guide you through will be different depending on whether you selected fractionator or LDC. In this training session, we will first walk you through the reporting requirements for a fractionator and then an LDC. The LDC training begins on slide 33. If you will be submitting a Subpart NN report for an LDC, you may want to follow along with the fractionator training session as information regarding the general layout of e-GGRT, how to access the help content, and the way in which e-GGRT validation operates, is the same for fractionators and LDCs. These features will not be covered in as much detail during the LDC training session as they will be in the fractionator session.

We will now begin the training session for fractionators.



Submitting your Subpart NN Report: Natural Gas Liquids Fractionator

Subpart NN Overview: NGL Fractionators

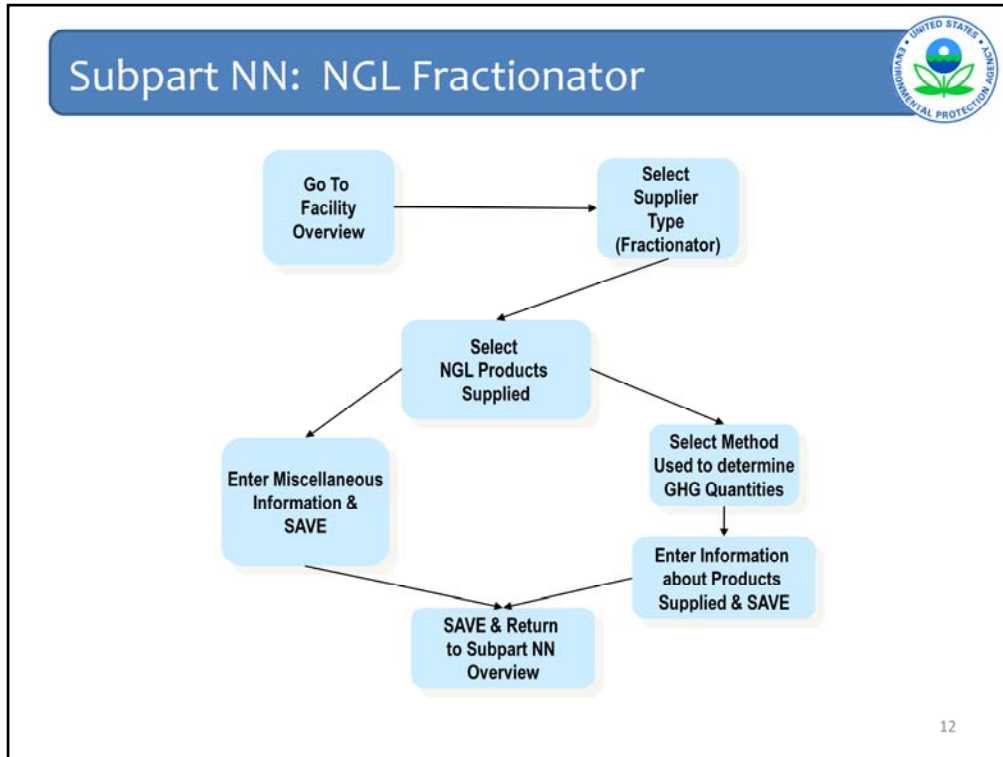


- In this section we'll walk you through the reporting requirements for a NGL fractionator.
- This process includes:
 - Entering information regarding quantities of each NGL product received and delivered.
 - Determining the CO₂ quantity associated with each product.
 - Entering miscellaneous information associated with the facility's operations.

11

In this section we'll walk you through the reporting requirements for an NGL fractionator.
This process includes:

- Entering information regarding quantities of each NGL product received and delivered.
- Determining the CO₂ quantity associated with each product. –and-
- Entering miscellaneous information associated with the facility's operations.



This slide gives an overview of the information you must enter to complete your Subpart NN fractionator report.

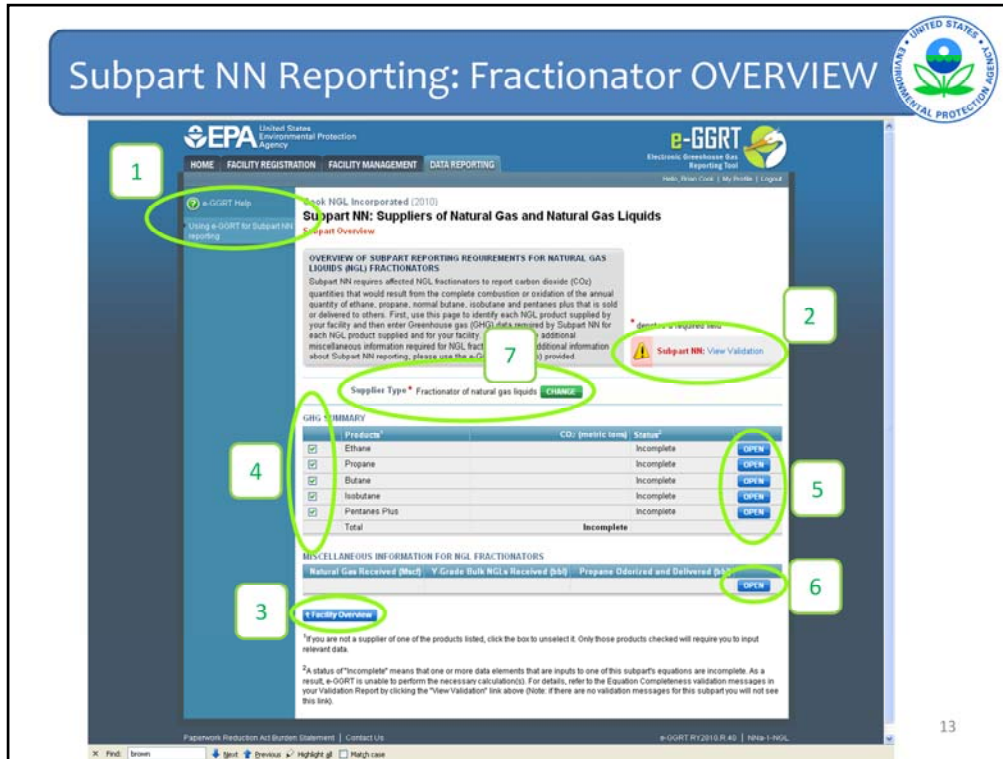
As was already shown, the first step is to select your supplier type, in this case, a fractionator.

The next step is to select the NGL products you supply. Fractionators must report the quantities of ethane, butane, isobutane, propane, and pentanes plus they produce and supply.

After you've selected your products you have two options as to how you can proceed. To complete your Subpart NN report you must enter both miscellaneous information about your fractionator and enter information related to the quantity of each NGL product you supply. The order in which you complete these 2 steps is up to you.

When you choose to enter the information associated with NGL products supplied, the first step is to report which of the two methodologies in Subpart NN you will use to determine the CO₂ quantity associated with each product you supply. Once you have chosen a methodology, you will enter the quantity of each product supplied and received from other fractionators and other information necessary to determine the GHG quantities associated with these products.

In the following example, we'll begin by selecting the products supplied by our sample fractionator, then enter miscellaneous information related to the fractionator, and finally



Once you've indicated that you will be submitting a Subpart NN report for a fractionator as was shown previously, e-GGRT will direct you to the fractionator overview page seen here.

Let's take a moment to familiarize you with some of the key features of the e-GGRT system. This brief introduction to the layout of e-GGRT should be helpful to those of you reporting as an LDC as well. First, you should notice that at location 1 in the upper left hand corner of the screen there are links to the e-GGRT help content. If at any point while you're submitting your Subpart NN report you have questions about what you need to enter, you can click on the e-GGRT help links.

A second important feature of e-GGRT is the validation icon on the right hand side at location 2. As you're entering your information into e-GGRT, the system will check to make sure you've entered all the data you are required to submit. You can view a list of all the data elements that you have not yet entered by clicking "view validation" next to the validation icon. In addition to checking your report for completeness, e-GGRT also employs reasonable range checks to verify that the values you are entering for each data element are reasonable. Should you accidentally enter a value incorrectly by, for example, adding an extra zero to the end of a large number, e-GGRT will flag this data as being outside a reasonable range of expected results. If you feel that your data is correct, you can submit your data as is even if there are validation flags. If you have submitted all required data and all the data you've entered passes the reasonable range tests EPA has developed, the validation icon will switch to a check mark so you know the data you have submitted has passed e-GGRT's initial data quality and completeness checks. We will show you an example of what the validation errors include on the next slide.

Another button you'll see on this screen is the "FACILITY OVERVIEW" button at location 3

Subpart NN: Validation Messages

U.S. ENVIRONMENTAL PROTECTION AGENCY

NN - C Supplier 2 Frac (2010)
Subpart NN: Suppliers of Natural Gas and Natural Gas Liquids
 Subpart Overview • **Validation Report**

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

Print-friendly version

FACILITY-LEVEL VALIDATION MESSAGES

Validation Type ¹	ID ²	Message ³
Data Completeness	NN014	Annual Volume of Natural Gas received for processing. This data element is required. Please enter the required data.
Data Completeness	NN017	Annual quantity of y-grade bulk NGLs received from others for fractionation. This data element is required. Please enter the required data.
Data Completeness	NN019	Annual quantity of Propane odorized at the facility and delivered to others. This data element is required. Please enter the required data.




EQUATION-LEVEL VALIDATION MESSAGES

Validation Type ¹	Product	Equation	ID ²	Message ³
Equation Completeness	Ethane	NW-1	NN031	Total annual volume of product supplied. This data element is required.
Equation Completeness	Isobutane	NW-1	NN031	Total annual volume of product supplied. This data element is required.
Equation Completeness	Butane	NW-1	NN031	Total annual volume of product supplied. This data element is required.
Equation Completeness	Pentanes Plus	NW-1	NN031	Total annual volume of product supplied. This data element is required.
Equation Completeness	Propane	NW-1	NN031	Total annual volume of product supplied. This data element is required.
Data Completeness	Ethane	NW-1	NN038	Days in reporting year for which substitute data procedures were used. This data element is required.
Data Completeness	Isobutane	NW-1	NN038	Days in reporting year for which substitute data procedures were used. This data element is required.
Data Completeness	Butane	NW-1	NN038	Days in reporting year for which substitute data procedures were used. This data element is required.
Data Completeness	Pentanes Plus	NW-1	NN038	Days in reporting year for which substitute data procedures were used. This data element is required.
Data Completeness	Propane	NW-1	NN038	Days in reporting year for which substitute data procedures were used. This data element is required.
Data Completeness	Ethane	NW-1	NN041	Industry standard used to measure the volume. This data element is required.
Data Completeness	Isobutane	NW-1	NN041	Industry standard used to measure the volume. This data element is required.
Data Completeness	Butane	NW-1	NN041	Industry standard used to measure the volume. This data element is required.

14

This screen shows the list of validation errors that e-GGRT has currently flagged for this supplier. At this time, these messages simply show all the data that has not yet been entered. Once you have submitted data, if any of the data you have entered falls outside EPA's range of expected values, validation messages alerting you to these possible reporting errors will be included on this list as well. Now that we've shown you what this screen looks like, we'll return to the fractionator overview screen and get started entering actual data.

Subpart NN Reporting: Fractionator OVERVIEW

HOME
FACILITY REGISTRATION
FACILITY MANAGEMENT
DATA REPORTING

Cook NGL Incorporated (2010)

Subpart NN: Suppliers of Natural Gas and Natural Gas Liquids

[Subpart Overview](#)

OVERVIEW OF SUBPART REPORTING REQUIREMENTS FOR NATURAL GAS LIQUIDS (NGL) FRACTIONATORS

Subpart NN requires affected NGL fractionators to report carbon dioxide (CO₂) quantities that would result from the complete combustion or oxidation of the annual quantity of ethane, propane, normal butane, isobutane and pentanes plus that is sold or delivered to others. First, use this page to identify each NGL product supplied by your facility and then enter Greenhouse gas (GHG) data required by Subpart NN for each NGL product supplied and for your facility. Next, enter the additional miscellaneous information required for NGL fractionators. For additional information about Subpart NN reporting, please use the e-GGRT Help link(s) provided.

* denotes a required field

[Subpart NN View Validation](#)

Supplies Type * Fractionator of natural gas liquids [CHANGE](#)

GHG SUMMARY

Products	CO ₂ (metric tons)	Status*	
<input checked="" type="checkbox"/> Ethane		Incomplete	OPEN
<input checked="" type="checkbox"/> Propane		Incomplete	OPEN
<input checked="" type="checkbox"/> Butane		Incomplete	OPEN
<input checked="" type="checkbox"/> Isobutane		Incomplete	OPEN
<input checked="" type="checkbox"/> Pentanes Plus		Incomplete	OPEN
Total		Incomplete	

MISCELLANEOUS INFORMATION FOR NGL FRACTIONATORS

Natural Gas Received (Mscf) Y Grade Bulk NGLs Received (bbl) Propane Odorized and Delivered (bbl)

[OPEN](#)

1 Facility Overview

*If you are not a supplier of one of the products listed, click the box to unselect it. Only those products checked will require you to input relevant data.

*A status of "incomplete" means that one or more data elements that are inputs to one of this subpart's equations are incomplete. As a result, e-GGRT is unable to perform the necessary calculations. For details, refer to the Equation Completeness validation messages in your Validation Report by clicking the "View Validator" link above (Note: if there are no validation messages for this subpart you will not see this link).

Paperwork Reduction Act Burden Statement | Contact Us
e-GGRT FY 2016 R.40 | NHp-1-NGL

In order to begin the subpart NN reporting process, we will first select the NGL products this fractionator supplies. By default, all 5 products: ethane, propane, butane, isobutane, and pentanes plus will be selected. You must deselect any products that you do not supply. To deselect a particular product, click the check box to the left of that products name near the 1 on the screen. Our sample fractionator is a supplier of propane, butane, isobutane, and pentanes plus but not ethane. In order to do deselect ethane, click the check box next to ethane.

The screenshot displays the EPA e-GGRT interface. At the top, a blue banner reads "NN Fractionator: Deselect a Product Supplied" next to the EPA logo. Below this, the main navigation bar includes "HOME", "FACILITY REGISTRATION", "FACILITY MANAGEMENT", and "DATA REPORTING". The user is logged in as "Brian Cook". The page title is "NN - C Supplier 2 Frac (2010)" and the subpart is "Subpart NN: Suppliers of Natural Gas and Natural Gas Liquids". A central dialog box titled "Deselection of an NGL Product" contains the following text: "By deselecting Ethane, you are declaring that you are not a supplier of that product. You will not be able to enter any data for Ethane this reporting year unless you select it again. If you wish to proceed, click DESELECT. If you do not want to proceed at this time, click CANCEL." Below the text are "CANCEL" and "DESELECT" buttons, with "DESELECT" highlighted by a green circle. To the right of the dialog is a yellow warning box: "Warning: Deselecting a product will require e-GGRT to delete any data you have already entered for that product during the current reporting year. You will not be able to retrieve any deleted data if you proceed." The footer includes "Paperwork Reduction Act Burden Statement | Contact Us" and "e-GGRT RY2010.R.42 | NNa-4".

16

This screen provides a warning that by deselecting a particular product, the GHG quantity associated with that products will not be included in the GHG report for this supplier.

If you wish to proceed with deselecting ethane, click “DESELECT”. If you are in fact a supplier of ethane, you would click “CANCEL”. We will click on “DESELECT”.

Subpart NN Reporting: Fractionator OVERVIEW

EPA United States Environmental Protection Agency | e-GGRT Electronic Greenhouse Gas Reporting Tool

Cook NGL Incorporated (2010)

Subpart NN: Suppliers of Natural Gas and Natural Gas Liquids

OVERVIEW OF SUBPART REPORTING REQUIREMENTS FOR NATURAL GAS LIQUIDS (NGL) FRACTIONATORS

Subpart NN requires affected NGL fractionators to report carbon dioxide (CO₂) quantities that would result from the complete combustion or oxidation of the annual quantity of ethane, propane, normal butane, isobutane and pentanes plus that is sold or delivered to others. First, use this page to identify each NGL product supplied by your facility and then enter Greenhouse gas (GHG) data required by Subpart NN for each NGL product supplied and for your facility. Next, enter the additional miscellaneous information required for NGL fractionators. For additional information about Subpart NN reporting, please use the e-GGRT Help link(s) provided.

Suppliers Type* Fractionator of natural gas liquids **CHANGE**

GHG SUMMARY	CO ₂ (metric tons)	Status*
<input type="checkbox"/> Ethane		Incomplete OPEN
<input checked="" type="checkbox"/> Propane		Incomplete OPEN
<input checked="" type="checkbox"/> Butane		Incomplete OPEN
<input checked="" type="checkbox"/> Isobutane		Incomplete OPEN
<input checked="" type="checkbox"/> Pentanes Plus		Incomplete OPEN
Total	Incomplete	

MISCELLANEOUS INFORMATION FOR NGL FRACTIONATORS

Natural Gas Received (Mscf) | Y-Grade Bulk NGLs Received (MM) | Propane Odorized and Delivered (MM) **OPEN**

1 (points to Ethane checkbox)

2 (points to OPEN button)

*If you are not a supplier of one of the products listed, click the box to unselect it. Only those products checked will require you to input relevant data.
*A status of "incomplete" means that one or more data elements that are inputs to one of this subpart's equations are incomplete. As a result, e-GGRT is unable to perform the necessary calculation(s). For details, refer to the Equation Completeness validation messages in your Validation Report by clicking the "View Validation" link above. If there are no validation messages for this subpart you will not see this link.

After you've made your selection on the previous screen, e-GGRT returns you to the fractionator overview page. Note the checkbox next to Ethane has been deselected, indicated on your screen at location 1.

The next thing we'll do in this example is to enter miscellaneous information for this fractionator. Click "OPEN" at location 2 on your screen to proceed.

NN: Miscellaneous Fractionator Info

EPA United States Environmental Protection Agency

e-GGRT Electronic Greenhouse Gas Reporting Tool

HOME FACILITY REGISTRATION FACILITY MANAGEMENT DATA REPORTING

Hello, Brian Cook | My Profile | Logout

Cook NGL Incorporated (2010)

Subpart NN: Suppliers of Natural Gas and Natural Gas Liquids

Subpart Overview » **Miscellaneous Information**

MISCELLANEOUS INFORMATION FOR NGL FRACTIONATORS

Use this page to report the annual volume of natural gas received for processing, the annual quantity of y-grade bulk NGLs received from others for fractionation and the annual quantity of propane that the supplier odorizes at the facility and delivers to others. For additional information about entering miscellaneous information, please use the e-GGRT Help link(s) provided.

Reporting Parameter	Value
Annual Volumes of Natural Gas received for processing (mscf)	40000000
Annual quantity of y-grade bulk NGLs received from others for fractionation (barrels)	1000000
Annual quantity of Propane odorized at the facility and delivered to others (barrels)	10000

CANCEL **SAVE**

Paperwork Reduction Act Burden Statement | Contact Us

e-GGRT RY2010 | NNs-3

18

On this screen, at location 1, enter the amount of natural gas received in 2010 for processing in thousand standard cubic feet, at location 2, enter the quantity of y-grade bulk NGLs received for fractionation in barrels, and at location 3, enter the quantity of propane odorized and delivered to others in barrels.

Once you've entered these three quantities, click "SAVE".

Subpart NN Reporting: Fractionator OVERVIEW

EPA United States Environmental Protection Agency | e-GGRT Electronic Greenhouse Gas Reporting Tool

Cook NGL Incorporated (2010)

Subpart NN: Suppliers of Natural Gas and Natural Gas Liquids

Subpart Overview

OVERVIEW OF SUBPART NN REPORTING REQUIREMENTS FOR NATURAL GAS LIQUIDS (NGL) FRACTIONATORS

Subpart NN requires affected NGL fractionators to report carbon dioxide (CO₂) quantities that would result from the complete combustion or oxidation of the annual quantity of ethane, propane, normal butane, isobutane and pentanes plus that is sold or delivered to others. First, use this page to identify each NGL product supplied by your facility and then enter Greenhouse gas (GHG) data required by Subpart NN for each NGL product supplied and for your facility. Next, enter the additional miscellaneous information required for NGL fractionators. For additional information about Subpart NN reporting, please use the e-GGRT Help link(s) provided.

* denotes a required field

Subpart NN: View Validation

Supplier Type * Fractionator of natural gas liquids **CHANGE**

Products	CO ₂ (metric tons)	Status*	
<input type="checkbox"/> Ethane			
<input checked="" type="checkbox"/> Propane		Incomplete	OPEN
<input checked="" type="checkbox"/> Butane		Incomplete	OPEN
<input checked="" type="checkbox"/> Isobutane		Incomplete	OPEN
<input checked="" type="checkbox"/> Pentanes Plus		Incomplete	OPEN
Total		Incomplete	

MISCELLANEOUS INFORMATION FOR NGL FRACTIONATORS

Year	Gas Received (bbl)	Grade Bulk NGLs Received (bbl)	Propane Quantities and Grades
2010	40,000,000	1,000,000	100,000

1 Facility Overview

¹You are not a supplier of one of the products listed, click the box to unselect it. Only those products checked will require you to input relevant data.

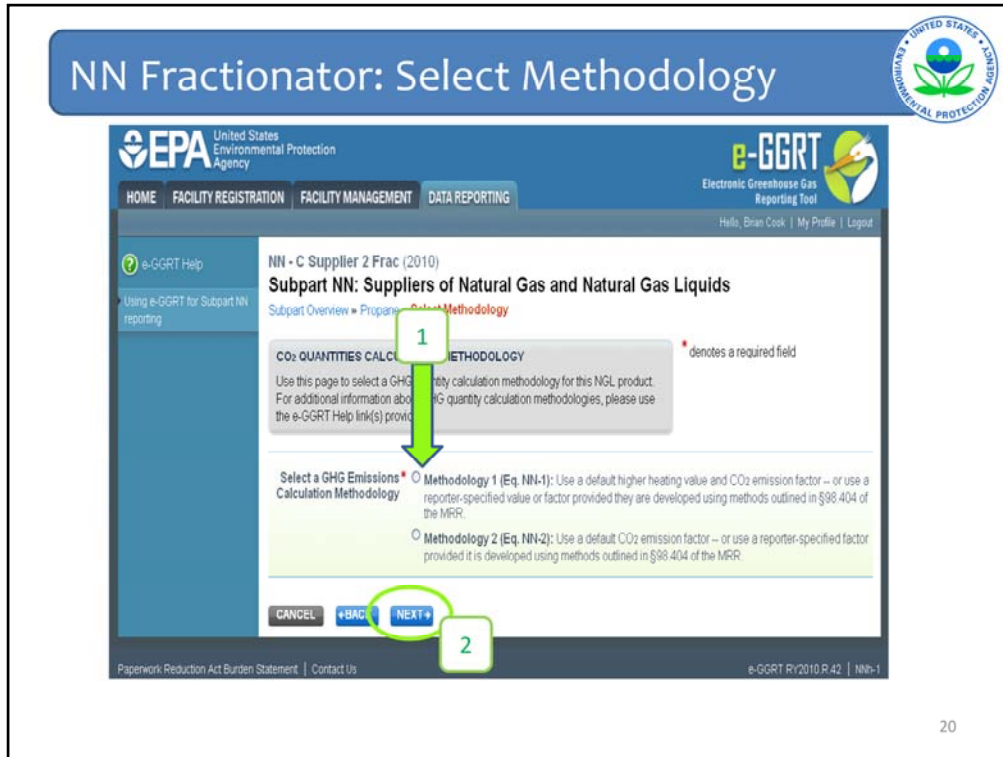
²A status of "incomplete" means that one or more data elements that are inputs to one of this subpart's equations are incomplete. As a result, e-GGRT is unable to perform the necessary calculation(s). For details, refer to the Equation Completeness validation messages in your Validation Report by clicking the "View Validator" link above (note: if there are no validation messages for this subpart you will not see this link).

Page: 19

After clicking "SAVE", e-GGRT returns you to the fractionator overview page. Notice that the miscellaneous information we have entered is now displayed in the "MISCELLANEOUS INFORMATION" box at location 1 on the screen.

Next, we will enter information associated with each NGL product supplied, starting with propane.

To begin, click the "OPEN" button associated with propane shown at location 2 on the screen.



The first step is to choose which methodology you will use to determine the CO₂ quantity associated with propane supplied.

To select a methodology, click the radio button to the left of the methodology you wish to use.

If you choose Methodology 1, you need to enter a higher heating value (HHV) in units of million BTU's per barrel and an emission factor in units of kilograms of carbon dioxide per million BTU. If you select Methodology 2 you don't need an HHV, you will only enter an emission factor in units of metric tons of carbon dioxide per barrel.

In this example, we'll use Methodology 1. The process for entering information using Methodology 2 is very similar, with the only differences being that the emission factor will be in different units and no HHV needs to be entered. The webforms associated with Methodology 2 will not be shown in this presentation.

To select Methodology 1, click the radio button next to Methodology 1 at location 1 on the screenshot, then click "NEXT".

United States Environmental Protection Agency

e-GGRT Electronic Greenhouse Gas Reporting Tool

HOME FACILITY REGISTRATION FACILITY MANAGEMENT DATA REPORTING

Help, Brian Cook | My Profile | Logout

Subpart NN: Suppliers of Natural Gas and Natural Gas Liquids

Subpart Overview » Propane

CO₂ QUANTITY CALCULATION
 Equation NN-8 will calculate CO₂ quantities associated with the fractionated NGL product delivered to customers by subtracting the total CO₂ quantities from NGL products received from other fractionators from the total CO₂ quantities from NGL products supplied. For additional information about the CO₂ quantity calculations, please use the e-GGRT Help link(s) provided.

Equation Summary (NN-8)

- CO₂s (NN-1) CO₂ associated with product supplied
- CO₂w (NN-7) CO₂ associated with product received from other fractionators

SUMMARY

Equation NN-8 $CO_2 = CO_{2s} - CO_{2w}$

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

Product	CO ₂ s	CO ₂ w	Result
Propane			Incomplete

FINISHED NEXT

Page 1 of 1 | Act Burden Statement | Contact Us

e-GGRT R12010 R.42 | NN-2

21

This screen provides an overview of the equations you will use to determine the CO₂ quantity associated with the propane supplied less the quantity received from other fractionators.

First, determine the CO₂ quantity associated with all propane delivered to customers using equation NN-1. Once that has been done, determine the CO₂ quantity associated with propane received from other fractionators using equation NN-7. Once these tasks have been completed, e-GGRT will use equation NN-8, shown at location 3, to subtract the CO₂ associated with propane received from the CO₂ associated with propane supplied to determine the CO₂ associated with propane produced.

To get started, either click “NEXT” which is at location 4 on the slide, or click on the description of equation NN-1 in the grey box at location 1.

NN Fractionator: Equation NN-1 Overview

EPA United States Environmental Protection Agency

e-GGRT Electronic Greenhouse Gas Reporting Tool

HOME FACILITY REGISTRATION FACILITY MANAGEMENT DATA REPORTING

Help: Data Cues | My Profile | Logout

e-GGRT Help
Using e-GGRT for Subpart NN reporting

NN - C Supplier 2 Frac (2010)
Subpart NN: Suppliers of Natural Gas and Natural Gas Liquids
Subpart Overview • Propane • Eq. NN-6 • Eq. NN-1

CO₂ QUANTITY CALCULATION
Equation NN-6 will calculate CO₂ quantities associated with the fractionated NGL product delivered to customers by subtracting the total CO₂ quantities from NGL products received from other fractionators from the total CO₂ quantities from NGL products supplied. For additional information about the CO₂ quantity calculations, please use the e-GGRT Help link(s) provided.

Equation Summary (NN-6)

CO₂: (NN-1) CO₂ associated with product supplied

- Fuel: Annual Volume of Propane Supplied to Downstream Facilities
- HHV and EF: Higher Heating Value and Emissions Factor
- CO₂: (NN-7) CO₂ associated with product received from other fractionators

SUMMARY
Equation NN-1 $CO_2 = 1 \times 10^3 \cdot \sum Fuel \cdot HHV \cdot EF$

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

Year	Product	Fuel	HHV	EF	Calculated Result
2010	Propane				Incomplete — View Validation

What result do you want to report to EPA?
 Use the calculated result rounded
 Enter my own result (value will be rounded)

Previous **NEXT**

Paperwork Reduction Act Burden Statement | Contact Us

e-GGRT R/2013 R.42 | NN-6-NGL

22

This screen provides an overview of equation NN-1. Note you must enter the volume of propane supplied to downstream facilities and the HHV and emission factor associated with that propane to complete equation NN-1.

To enter the volume of propane supplied, either click “Fuel” in location 1, or “NEXT” in location 2.

United States Environmental Protection Agency

e-GGRT
Electronic Greenhouse Gas Reporting Tool

HOME FACILITY REGISTRATION FACILITY MANAGEMENT DATA REPORTING

Help, Sign Out | My Profile | Logout

CO₂ QUANTITY CALCULATION

Equation NN-6 will calculate CO₂ quantities associated with the fractionated NGL product delivered to customers by subtracting the total CO₂ quantities from NGL products received from other fractionators from the total CO₂ quantities from NGL products supplied. For additional information about the CO₂ quantity calculations, please use the e-GGRT Help link(s) provided.

Equation Summary (NN-6)

CO₂ (NN-1) CO₂ associated with product supplied

Fuel: Annual Volume of Propane Supplied to Downstream Facilities

HV and EF: Higher Heating Value and Emissions Factor

CO₂ (NN-7) CO₂ associated with product received from other fractionators

ANNUAL VOLUME OF PRODUCT SUPPLIED TO ALL USERS

Total annual volume of product supplied to all users: 15100500 (Bbl)

Days in reporting year for which substitute data procedures were used: 0 (days)

Industry standard used to measure the volume: Select

Select

ASTM standard

ANSI standard

API standard

NAESB standard

Industry standard practices

Other

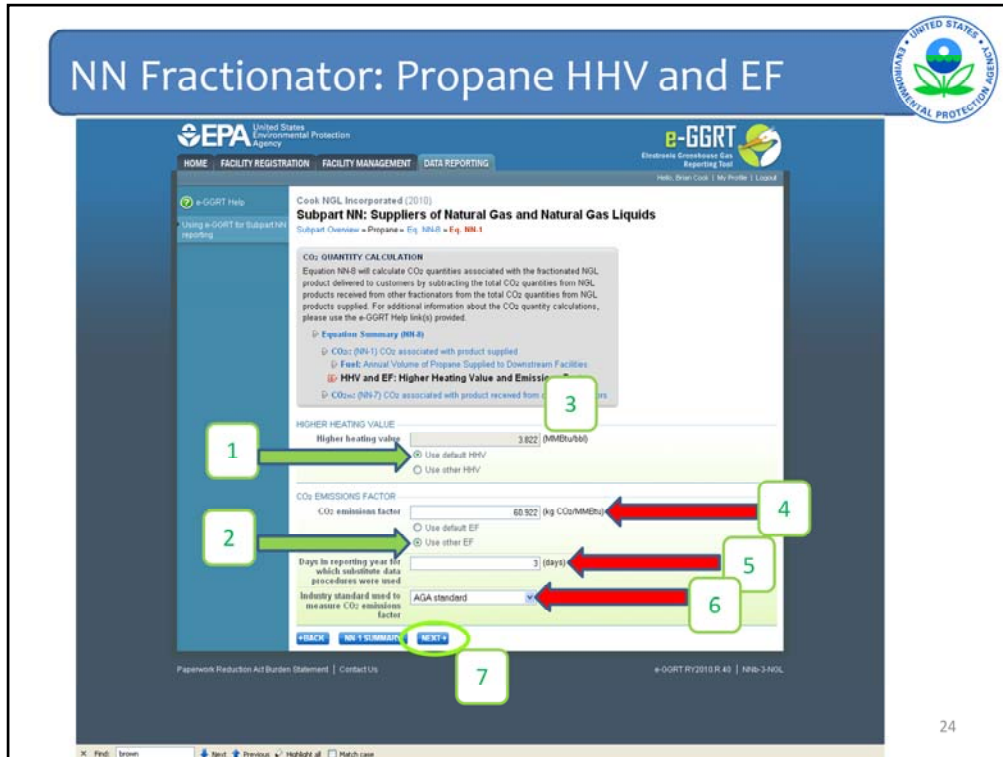
Previous Next

23

On this screen enter, at location 1, the total quantity of propane supplied during the reporting year; at location 2, the numbers of days missing data procedures were used to determine this quantity; and at location 3, the industry standard used to measure the volume.

New for 2011, if you used multiple methods during the reporting year to make measurements, eGGRT allows you to select multiple methods in the pull-down. To select multiple methods click on the first method in the pick-list, then hold CTRL and click on a 2nd method, 3rd method, etc.

Once this information has been entered, click "NEXT".



On this next screen, enter the HHV and emission factor associated with propane supplied.

There are two different options for entering an HHV and emission factor. Either use the default value from Subpart NN, or a site-specific value.

When you arrive at this page, e-GGRT assumes that you will use the default HHV and emission factor. The radio button next to “Use default HHV”, at location 1 on the screen, and “Use default EF”, at location 2, will be selected for you. In this example, the user has decided to use the default HHV for propane, 3.822 million BTUs per barrel. E-GGRT displays this value in the grey box at location 3. The user did not need to enter this information, it was provided by e-GGRT.

For the CO₂ emission factor, the user has decided not to use the default value from the rule, but to instead enter a site-specific value. In order to enter a site-specific emission factor click the radio button next to “Use other EF” at location 2. Once this selection has been made, e-GGRT will allow you to overwrite the default value. The box where this value is to be entered is shown at location 4. If you choose to enter your own emission factor, e-GGRT will also require you to enter the number of days substitute data procedures were used to determine this emission factor and the industry standard used to measure this value. This information must be entered at locations 5 and 6 respectively.

Once this information has been entered, all steps necessary to complete Equation NN-1 will have been completed. To begin entering the data required to complete Equation NN-7, click “NEXT”.

United States Environmental Protection Agency

e-GGRT
Electronic Greenhouse Gas Reporting Tool

HOME FACILITY REGISTRATION FACILITY MANAGEMENT DATA REPORTING

Help, Train, Close | My Profile | Logout

Cook NGL Incorporated (2010)

Subpart NN: Suppliers of Natural Gas and Natural Gas Liquids
Subpart Overview » Propane » Eq. NN.8 » Eq. NN.7

CO₂ QUANTITY CALCULATION
Equation NN-7 will calculate CO₂ quantities associated with the fractionated NGL product delivered to customers by subtracting the total CO₂ quantities from NGL products received from other fractionators from the total CO₂ quantities from NGL products supplied. For additional information about the CO₂ quantity calculations, please use the e-GGRT Help link(s) provided.

- Equation Summary NN-7
- CO₂: (NS-1) CO₂ associated with product supplied
- CO₂: (NN-7) CO₂ associated with product received from other fractionators
- Fuel: Annual Volume of Propane Received
- EF: Emissions Factor

SUMMARY

Equation NN-7 $CO_{2e} = \sum Fuel * EF$

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

Year	Product	Fuel	EF	Calculated Result
2010	Propane			Incomplete — View Validation

What result do you want to report to EPA? Use the calculated result rounded Enter my own result (value will be rounded)

PREV **NEXT**

Pagework Production Act Burden Statement | Contact Us

e-GGRT R1 2010 R-40 | help 4

25

This screen provides an overview of the information e-GGRT requires for Equation NN-7. e-GGRT requires the user to submit the amount of propane received from other fractionators and the emission factor associated with that propane in units of metric tons of carbon dioxide per barrel.

This information must be entered even if no propane was received from other fractionators. If this is the case, enter “0” for that quantity.

To begin, click “NEXT”.

NN Fractionator: Propane Received



United States Environmental Protection Agency

e-GGRT Electronic Greenhouse Gas Reporting Tool

HOME FACILITY REGISTRATION FACILITY MANAGEMENT DATA REPORTING

Help, Brian Cook | My Profile | Logout

e-GGRT Help

Using e-GGRT for Subpart NN Reporting

NN - C Supplier 2 Frac (2010)

Subpart NN: Suppliers of Natural Gas and Natural Gas Liquids

Subpart Overview » Propane » Eq. NN-8 » Eq. NN-7

CO₂ QUANTITY CALCULATION

Equation NN-8 will calculate CO₂ quantities associated with the fractionated NGL product delivered to customers by subtracting the total CO₂ quantities from NGL products received from other fractionators from the total CO₂ quantities from NGL products supplied. For additional information about the CO₂ quantity calculations, please use the e-GGRT Help link(s) provided.

- Equation Summary (NN-4)
 - CO₂c (NN-1) CO₂ associated with product supplied
 - CO₂w (NN-7) CO₂ associated with product received from other fractionators
 - Fuel: Annual Volume of Propane Received
 - EF: Emissions Factor

TOTAL ANNUAL VOLUME OF NGL PRODUCT RECEIVED

Total annual volume of NGL product received (bbl)

Days in reporting year for which substitute data procedures were used (days)

BACK NEXT

Paperwork Reduction Act Burden Statement | Contact Us

e-GGRT | NReg 2

26

First, enter the quantity of propane received from other fractionators in barrels. Then, enter the number of days missing data procedures were used to determine this value.

Once the information has been entered, click “NEXT”.

27

On this screen, enter the emission factor associated with propane received from other fractionators in units of metric tons of carbon dioxide per barrel. Again, you have the option of using a default emission factor associated or your own emission factor. If you choose to enter your own value, you must also report the number of days substitute data procedures were used, at location 2, and the industry standard used to measure this value at location 3.

Once you have entered this data, either click “NN-7 SUMMARY” at location 4, or “NEXT”. By clicking “NN-7 SUMMARY”, you are returned to the equation NN-7 overview page. From this page you will be able to view validation messages to see if e-GGRT thinks you incorrectly entered any data. Clicking “NEXT” will return you to the equation NN-8 summary page. We will click on “NN-7 SUMMARY”.

United States Environmental Protection Agency

e-GGRT Electronic Greenhouse Gas Reporting Tool

HOME FACILITY REGISTRATION FACILITY MANAGEMENT DATA REPORTING

Help: Error Codes | My Profile | Logout

Subpart NN: Suppliers of Natural Gas and Natural Gas Liquids

Subpart Overview • Propane • Eq. NN-8 • Eq. NN-7

CO₂ QUANTITY CALCULATION

Equation NN-8 will calculate CO₂ quantities associated with the fractionated NGL product delivered to customers by subtracting the total CO₂ quantities from NGL products received from other fractionators from the total CO₂ quantities from NGL products supplied. For additional information about the CO₂ quantity calculations, please use the e-GGRT Help link(s) provided.

Equation Summary (NN-8)

- CO₂: (NN-1) CO₂ associated with product supplied
- CO₂: (NN-7) CO₂ associated with product received from other fractionators
- Fuel: Annual Volume of Propane Received
- EF: Emissions Factor

SUMMARY

Equation NN-7 $CO_{2e} = \sum Fuel * EF$

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

Year	Product	Fuel	EF	Calculated Result
2010	Propane	50,000	0.236	11,750

What result do you want?

Use the calculated result rounded (11,750 metric tons)

Enter my own result (value will be rounded)

Eq. NN-7: No Validation Messages

11,750

Eq. NN-7: Annual CO₂ metric emissions is a result from the combination of production of NGL product received from other fractionators (metric tons)

Eq. NN-7: No Validation Messages

1

2

3

Framework Reduction Act Burden Statement | Contact Us

e-GGRT FY2010 R.42 | NNp-4

28

By returning to this page you have an opportunity to view validation messages associated with equation NN-7. Because all data was entered properly and all the data entered was within the reasonable data ranges EPA expected, there are no validation messages and the check mark appears on the right side of the screen at location 1.

The second thing to note is that at the bottom of the screen the information entered on the previous screen is displayed. The amount of propane received from other fractionators is displayed under “Fuel”, the emission factor that was entered is presented under “EF” and the CO₂ quantity associated with this fuel is displayed under “Calculated Result”.

e-GGRT gives you the option to report the result that it has calculated, 11,750, or you may enter your own result. A user may wish to enter a value that is different from the e-GGRT calculated value if, for example, the user rounded their emissions differently than e-GGRT did.

We will click the radio button next to “Enter my own result” to see how the user can enter their own result. This button is at location 3 on the screen.

United States Environmental Protection Agency

e-GGRT
Electronic Greenhouse Gas Reporting Tool

HOME FACILITY REGISTRATION FACILITY MANAGEMENT DATA REPORTING

Cook NGL Incorporated (2010)
Subpart NN: Suppliers of Natural Gas and Natural Gas Liquids
Subpart Overview • Propane • Eq. NN-8 • Eq. NN-7

CO₂ QUANTITY CALCULATION
Equation NN-8 will calculate CO₂ quantities associated with the fractionated NGL product delivered to customers by subtracting the total CO₂ quantities from NGL products received from other fractionators from the total CO₂ quantities from NGL products supplied. For additional information about the CO₂ quantity calculations, please refer to the e-GGRT Policy Implementation Guide.

Eq. NN-8 Annual CO₂ mass emissions that would result from the combustion of oxidation of NGL product received from other fractionators (Metric tons)

Eq. NN-7 Annual CO₂ mass emissions that would result from the combustion of oxidation of NGL product received from other fractionators (Metric tons)

Eq. NN-7: No Validation Messages

CO₂ QUANTITY CALCULATION
Equation NN-8 will calculate CO₂ quantities associated with the fractionated NGL product delivered to customers by subtracting the total CO₂ quantities from NGL products received from other fractionators from the total CO₂ quantities from NGL products supplied. For additional information about the CO₂ quantity calculations, please refer to the e-GGRT Policy Implementation Guide.

Eq. NN-8 Annual CO₂ mass emissions that would result from the combustion of oxidation of NGL product received from other fractionators (Metric tons)

Eq. NN-7 Annual CO₂ mass emissions that would result from the combustion of oxidation of NGL product received from other fractionators (Metric tons)

Eq. NN-7: No Validation Messages

SUMMARY
Equation NN-7: $CO_{2eq} = \sum Fuel * EF$
Hover over an element in the equation above to reveal a definition of that element.

Year	Product	Fuel	EF	Calculated Result
2010	Propane	0,000	0.296	11,750

What result do you want?

Use the calculated result rounded (11,750 metric tons)

Enter my own result (value will be rounded)

Report this value: 11749 (Metric tons of CO₂)

Eq. NN-8 Annual CO₂ mass emissions that would result from the combustion of oxidation of NGL product received from other fractionators (Metric tons)

Eq. NN-7 Annual CO₂ mass emissions that would result from the combustion of oxidation of NGL product received from other fractionators (Metric tons)

Eq. NN-7: No Validation Messages

Equation Summary (NN-8)

Eq. NN-8 Annual CO₂ mass emissions that would result from the combustion of oxidation of NGL product received from other fractionators (Metric tons)

Eq. NN-7 Annual CO₂ mass emissions that would result from the combustion of oxidation of NGL product received from other fractionators (Metric tons)

Eq. NN-7: No Validation Messages

11,750

11749 (Metric tons of CO₂)

BACK NEXT

Paperwork Reduction Act Burden Statement | Contact Us

e-GGRT RV2010 R.40 | Page 4

When you click on the radio button next to “Enter my own result”, a new field opens up where you can enter the amount of CO₂ associated with propane received. This new field is shown in location 1 on the screen. Here we have replaced the e-GGRT calculated value of 11,750 with 11,749.

Once you have entered the value you wish to report, click “Equation Summary (NN-8)”, at location 2, to view the total CO₂ quantity associated with propane delivered to others less the amount received from other fractionators.

United States Environmental Protection Agency

e-GGRT
Electronic Greenhouse Gas Reporting Tool

HOME FACILITY REGISTRATION FACILITY MANAGEMENT DATA REPORTING

Help: Brian Cook | My Profile | Logout

Subpart NN: Suppliers of Natural Gas and Natural Gas Liquids
Subpart Overview » Propane

CO₂ QUANTITY CALCULATION
Equation NN-8 will calculate CO₂ quantities associated with the fractionated NGL product delivered to customers by subtracting the total CO₂ quantities from NGL products received from other fractionators from the total CO₂ quantities from NGL products supplied. For additional information about the CO₂ quantity calculations, please use the e-GGRT Help link(s) provided.

Equation Summary (NN-8)

- CO₂s: (NN-1) CO₂ associated with product supplied
- CO₂re: (NN-7) CO₂ associated with product received from other fractionators

SUMMARY
Equation NN-8: $CO_2 = CO_{2s} - CO_{2re}$

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

Product	CO ₂ s	CO ₂ re	Result
Propane	3,516,059	11,749	3,504,310

3,504,310

FINISHED NEXT




Paperwork Reduction Act Burden Statement | CO₂ | e-GGRT RY2010, R.42 | NN-2

30

Once you return to the Equation NN-8 overview page, you will see that e-GGRT has performed the math in equation NN-8 for you. The total CO₂ associated with propane received from other fractionators has been subtracted from the total CO₂ associated with propane supplied. The result of this arithmetic is displayed both at the bottom of the page and in the calculator box in the upper right hand corner, at locations 1 and 2 respectively.

All the information required to determine the CO₂ quantity associated with propane supplied has now been entered. If we clicked "NEXT" we would be able to review all the data we just entered. Instead, we will click "FINISHED" to return to the fractionator overview screen to enter information associated with the other NGL products supplied.

Subpart NN Reporting: Fractionator OVERVIEW

HOME
FACILITY REGISTRATION
FACILITY MANAGEMENT
DATA REPORTING

Subpart NN: Suppliers of Natural Gas and Natural Gas Liquids

OVERVIEW OF SUBPART REPORTING REQUIREMENTS FOR NATURAL GAS LIQUIDS (NGL) FRACTIONATORS

Subpart NN requires affected NGL fractionators to report carbon dioxide (CO₂) quantities that would result from the complete combustion or oxidation of the annual quantity of ethane, propane, normal butane, isobutane and pentane plus that is sold or delivered to others. First, use this page to identify each NGL product supplied by your facility and then enter (or combine gas (NGL) data required by Subpart NN for each NGL product supplied and for your facility. Next, enter the additional miscellaneous information required for NGL fractionators. For additional information about Subpart NN reporting, please see the e-GGRT Help (link) provided.

Supplier Type: **Fractionator of natural gas liquids** COMPLETE

Product ¹	Quantity (tons) ²	Status ³
<input type="checkbox"/> Ethane		Incomplete
<input checked="" type="checkbox"/> Propane	2,526,400	Complete
<input checked="" type="checkbox"/> Butane		Incomplete
<input checked="" type="checkbox"/> Isobutane		Incomplete
<input checked="" type="checkbox"/> Pentane Plus		Incomplete
Total		Incomplete

MISCELLANEOUS INFORMATION FOR NGL FRACTIONATORS

Natural Gas Received (MMcf)	1-Grade Butyl NGLs Received (SD)	Propane Produced and Delivered (SD)
40,000,000	1,000,000	100,000

So, here we are back at the fractionator overview screen. Notice that the quantity of CO₂ associated with propane supplied is displayed at location 1. Also notice that the “Status” label for propane has switched from “Incomplete” to “Complete”.

As a next step, the user would enter information associated with the other NGL products supplied by clicking “OPEN” to the right of the name of each NGL, shown at location 2.

The method for entering this information for each NGL is the same as it was for propane so we won’t walk you through these individually.

The next slide will show you what a completed Subpart NN report for a fractionator looks like.

Subpart NN Reporting: Fractionator OVERVIEW

The screenshot displays the 'Subpart NN: Suppliers of Natural Gas and Natural Gas Liquids' reporting page. The table below shows the CO₂ quantities and completion status for various products. Callouts 1, 2, and 3 point to the CO₂ values for propane, butane, and pentanes plus, respectively. Callout 4 points to the total CO₂ quantity. Callout 5 points to the 'Complete' status for all products. Callout 6 points to the 'Facility Overview' link.

Products	CO ₂ (short tons)	Status
Ethane		Incomplete
Propane	3,504,310	Complete
Butane	1,131,800	Complete
Isobutane	655,321	Complete
Pentanes Plus	1,480,122	Complete
Total	6,870,371	

MISCELLANEOUS INFORMATION FOR NGL FRACTIONATORS

Natural Gas Processing (MMBtu)	Propane Gas (MMBtu)	Propane Gas (MMBtu)	Propane Gas (MMBtu)
40,000,000	1,000,000	100,000	100,000

Facility Overview

Let's take a moment to talk about how this screen has changed now that all data has been entered for butane, isobutane, and pentanes plus.

First, notice a value has been entered for the CO₂ quantity associated with the supply of each one of these products. These are shown at locations 1, 2, and 3 respectively. Also note that the "Status" of each product has switched from "Incomplete" to "Complete".

Further, eGGRT has determined the total CO₂ quantity associated with all the NGL products supplied by summing the CO₂ quantity for propane, butane, isobutane, and pentanes plus. The value is displayed in the "Total" row at location 4. This is the total quantity of CO₂ to be reported for Subpart NN.

We have now completed the Subpart NN report for this fractionator. Note the check mark at location 5 which alerts the user that all information has been entered and all information that has been entered passed EPA's reasonable range checks.

One can now click "Facility Overview", at location 6, to enter GHG information for other subparts the facility needs to report under and to submit the GHG report. The steps for submitting a GHG report will not be shown to do but can be found in another eGGRT training webinar on our website:

<http://www.epa.gov/climatechange/emissions/training.html>. Next we will walk you through the webforms for an LDC.



Submitting your Subpart NN Report:
Natural Gas Local Distribution Company

Subpart NN Overview: Local gas Distribution Company (LDC)

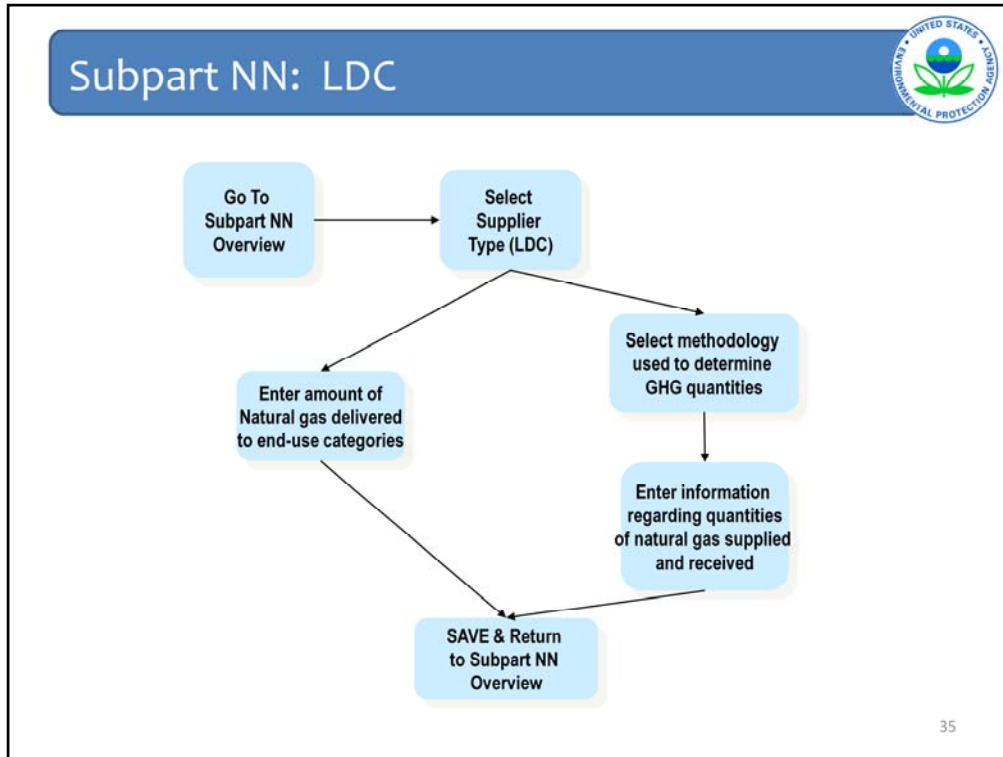


- In this section we'll walk you through the reporting requirements for a LDC.
- This process includes:
 - Entering information regarding quantities of natural gas received and delivered.
 - Determining the CO₂ quantity associated with each product.
 - Entering the amount of natural gas delivered to various end-use categories.

34

In this section we'll walk you through the reporting requirements for a LDC. This process includes:

- Entering information regarding quantities of natural gas received and delivered.
- Determining the CO₂ quantity associated with each product. –and-
- Entering the amount of natural gas delivered to various end-use categories.



This diagram gives an overview of the process LDCs should undertake to complete their Subpart NN report.

From the Subpart NN overview screen, first select the supplier type, an LDC in this case.

To complete the Subpart NN report, you must enter information regarding quantities of natural gas supplied and quantities of natural gas received, and also enter the amount of natural gas delivered to each customer type. The order in which you complete these tasks is up to you.

Once you have completed both steps, save your information and return to the Subpart NN overview page to submit the GHG report.

Now we will walk you through an example of how to complete an LDC's Subpart NN report.

Opening Subpart

The screenshot shows the EPA e-GGRT interface for 'Cook NGL Incorporated (2010)'. The page title is 'e-GGRT Greenhouse Gas Data Reporting'. The user is logged in as 'Brian Cook'. The page is divided into several sections:

- Facility or Supplier Overview:** Contains instructions on how to add source and/or supplier categories and how to initiate the annual report review and submission process.
- Facility's GHG Reporting Method:** Set to 'Data upload via XML'.
- Report Data Table:** A table with columns for '2010 Reporting Source or Supplier Category', 'Validation Messages?', and 'Subpart Reporting'. It lists three subparts: 'Subpart A—General Information', 'Subpart C—General Stationary Fuel Combustion Sources', and 'Subpart NN—Suppliers of Natural Gas and NGLs'. Each row has an 'OPEN' button. A green arrow points to the 'OPEN' button for Subpart NN.
- Summary Statistics:** On the right, there are three input fields for emissions: 'CO₂ equivalent emissions (excluding assigned from source categories) (metric tons)' with a value of 55,331; 'Biogenic CO₂ emissions from source categories (metric tons)' with a value of 0; and 'CO₂ equivalent quantity from supplier categories (metric tons)' with a value of 0.
- Submit Annual Report:** A table at the bottom showing a '2010 Annual Report v1' with a status of 'Ready for review' and a sign date of '02/10/2011 8:41 PM'. A 'GENERATE / SUBMIT' button is visible.

Let's take it from the top to show you how to get started submitting a Subpart NN report for an LDC.

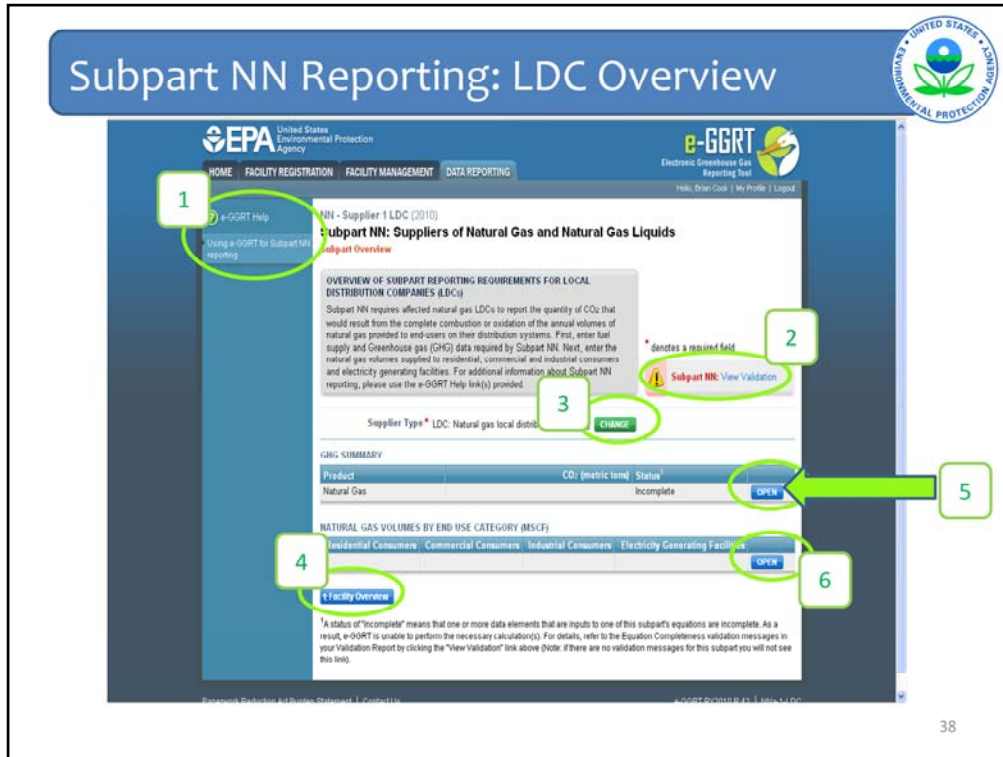
Once Subpart NN has been added to the list of subparts you will be reporting under, click "OPEN" to get started.

Subpart NN Reporting: Select Supplier Type

The screenshot displays the EPA e-GGRT interface for Subpart NN reporting. The main heading is "Subpart NN: Suppliers of Natural Gas and Natural Gas Liquids". Below this, there is an "Overview" section with the following text: "OVERVIEW OF SUBPART REPORTING REQUIREMENTS. Subpart NN requires affected suppliers of natural gas and Natural Gas Liquids (NGL) to report the amount of carbon dioxide (CO₂) that would result from the complete combustion or oxidation of the annual quantity of products supplied. Use this page to identify your supplier type. For additional information about Subpart NN reporting, please use the e-GGRT Help link(s) provided." Below the text is a "Supplier Type" dropdown menu with a red asterisk indicating a required field. The dropdown is open, showing three options: "Select", "LDC: Natural gas local distribution company", and "NGL: Fractionator of natural gas liquids". A green arrow points to the "START" button, and a green box with the number "2" is next to it. A green box with the number "1" is next to the dropdown menu.

The first thing to do is to select the supplier type. Here we'll select Natural Gas Local Distribution Company (LDC) from the drop-down menu, and click "START".

Making this selection will take you to the overview screen for an LDC.



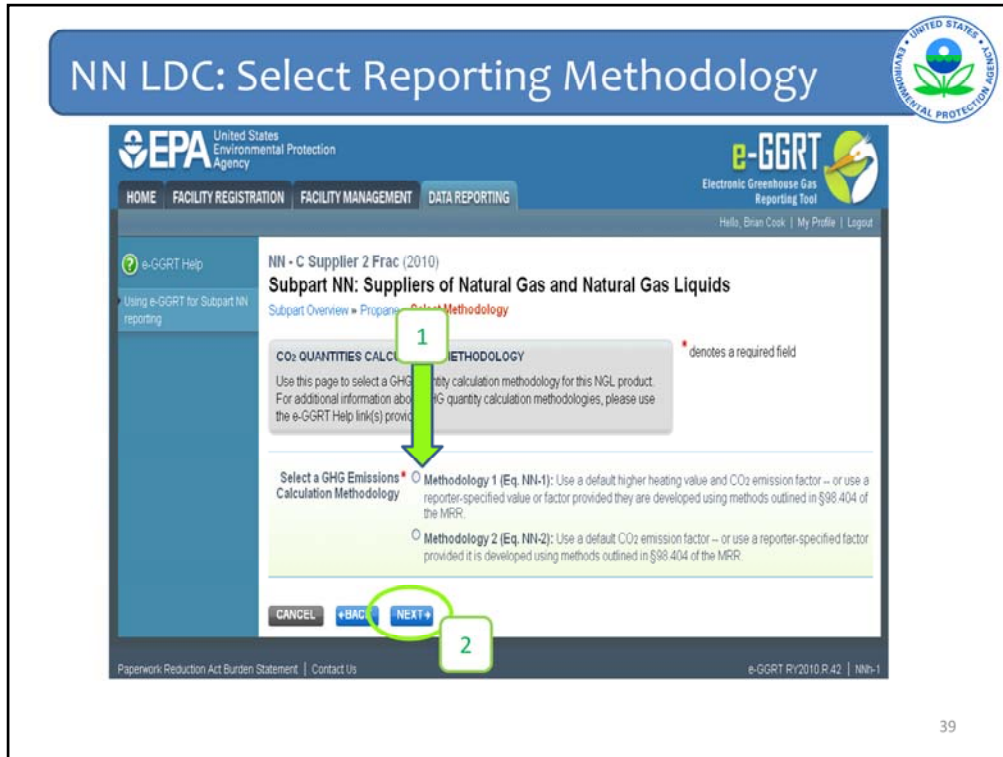
First, we will give a brief overview of the things that can be done on this screen before we get started entering information required by Subpart NN.

Location 1 highlights the description of the e-GGRT help content, location 2 shows how to access eGGRT validation warnings, clicking “CHANGE” in location 3 allows the user to change the supplier type, and clicking “Facility Overview” in location 4 returns the user to the facility overview page. Please refer back to slide 13 from the fractionators section for a more detailed description of these features.

There are two pathways you may go down to begin entering the information required by Subpart NN. The first option is to begin entering information regarding the quantities of natural gas received and supplied. This can be done by clicking “OPEN” under the “GHG Summary” heading at location 5.

The second option is to enter the volume of natural gas delivered to each end-use category: residential, commercial, industrial, and electricity generating facilities. To enter this information, click the “OPEN” button at location 6.

We will start this example by entering information required to determine the CO₂ quantity associated with natural gas delivered to end-users that received a supply of less than 460,000 thousand standard cubic feet in 2010 by clicking “OPEN” at location 5.



39

The first step in this process is to determine which methodology will be used to determine the CO₂ quantity associated with natural gas received at city gate stations.

To select a methodology, click the radio button to the left of the methodology you wish to use, at location 1.

If you choose Methodology 1, enter a higher heating value (HHV) in units of million BTU per thousand standard cubic feet and an emission factor in units of kilograms of carbon dioxide per million BTU. If you select Methodology 2, you do not need a HHV and only enter an emission factor.

We will choose Methodology 1 for this example. The process is very similar if you were to select Methodology 2 and will not be shown today.

We will select Methodology 1 and click “NEXT” to proceed.

NN LDC: Equation NN-6 Overview

United States Environmental Protection Agency | e-GGRT | Electronic Greenhouse Gas Reporting Tool

Subpart NN: Suppliers of Natural Gas and Natural Gas Liquids

CO₂ QUANTITIES CALCULATION

Equation NN-6 will calculate CO₂ quantities associated with the combustion of natural gas supplied to end users that receive less than 460,000 thousand standard cubic feet per year. This is done by subtracting the total CO₂ that would result from natural gas delivered to transmission pipelines or other LDCs, natural gas delivered to end users that receive a supply greater than or equal to 460,000 thousand per year and the net natural gas that is liquefied and stored and not used for delivery by the LDC within the reported year from the total CO₂ associated with the natural gas received at the city gate(s) and from local production. For additional information about the CO₂ quantities calculations, please use the e-GGRT Help (NN-6) provided.

Equation Summary (NN-1)

CO₂ (NN-1) Potential CO₂ Quantities associated with Natural Gas Received at the City Gate(s)

CO₂ (NN-3) Potential CO₂ Quantities associated with Natural Gas Delivered to Transmission Pipelines or Other LDCs

CO₂ (NN-4) Potential CO₂ Quantities associated with Natural Gas Received by End Users that Receive a Supply > 460,000 Thousand per Year

CO₂ (NN-5) Potential CO₂ Quantities associated with natural gas received that bypassed the city gate(s) such as natural gas received from local production and the net natural gas that is liquefied and stored (delivered from storage by the LDC within the Reported Year)

Equation NN-6 $CO_2 = CO_2 - CO_2 - CO_2 - CO_2 - CO_2$

Product	CO ₂	CO ₂	CO ₂	CO ₂	CO ₂	Result
Natural Gas					0	Incomplete

Previous | Next

This screen gives an overview of the information that must be reported by an LDC for Subpart NN.

To complete the Subpart NN report for an LDC the user must submit the data required to perform 4 separate equations:

The first equation to complete is NN-1, which is used to calculate the total CO₂ quantity associated with natural gas received at city gate stations. Had Methodology 2 been selected instead of Methodology 1, equation NN-2 would be displayed here instead of NN-1 and equation NN-2 would be used to determine this quantity. The rest of the equations on this screen will be the same regardless of which methodology you selected. Equation NN-1 is described at location 1.

The second equation you must complete is NN-3, in which you will calculate the CO₂ quantity associated with natural gas delivered to other LDCs and downstream transmission pipelines. This equation is shown at location 2.

In equation NN-4, you will determine the total CO₂ quantity associated with natural gas delivered to end-users that received a supply greater than or equal to 460,000 thousand standard cubic feet in 2010. This equation is shown at location 3.

In equation NN-5, you will determine the total CO₂ quantity associated with natural gas received by the LDC that was not delivered to customers in 2010 or that bypassed the city gate. This includes the net natural gas removed from or placed into storage and natural gas received from local production. This equation is shown at location 4.

Also note equation NN-6 at the bottom of this page, at location 5. Once you have entered all information required by equations NN-1, 3, 4 and 5, e-GGRT will use equation NN-6 to determine the total CO₂ quantity associated with natural gas delivered to end users that received a supply less than 460,000 thousand standard cubic feet during the reporting year. This value is the final product of the Subpart NN report. Open this link to learn more.

United States Environmental Protection Agency

e-GBRT
Electronic Greenhouse Gas Reporting Tool

HOME | FACILITY REGISTRATION | FACILITY MANAGEMENT | DATA REPORTING

Subpart NN: Suppliers of Natural Gas and Natural Gas Liquids

CO₂ QUANTITIES CALCULATION

Equation NN-1 will calculate CO₂ quantities associated with the combustion or oxidation of natural gas supplied to end-users that receive less than 400,000 thousand standard cubic feet (mscf) per year. This is done by calculating the total CO₂ that would result from natural gas delivered to transmission pipelines or other LDCs, natural gas delivered to end-users that receive a supply greater than or equal to 400,000 mscf per year and the net natural gas that is liquefied and stored and not used for delivery by the LDC within the reported year from the total CO₂ associated with the natural gas received at the city gate(s) and from local production. For additional information about the CO₂ quantities calculations, please use the e-GBRT Help (link) provided.

Equation Summary (NN-1)

CO₂e (NN-1) Potential CO₂ Quantities associated with Natural Gas Received at the City Gate(s)

- Fuel: Annual Volume of Natural Gas Received at the City Gate(s)
- HHV and EF: Higher Heating Value and Emission Factor
- CO₂e (NN-3) Potential CO₂ Quantities associated with Natural Gas delivered to Transmission Pipelines or Other LDCs
- CO₂e (NN-4) Potential CO₂ Quantities associated with Natural Gas Received by End-users that Receive a Supply < 400,000 Thousand scf per Year
- CO₂e (NN-5) Potential CO₂ Quantities associated with gas that is received that is produced in the city gate(s) such as natural gas received from local production and the Net Natural Gas that is Liquefied and/or Stored/Removed from storage by the LDC within the Reported Year

SUMMARY

Equation NN-1: $CO_2e = Fuel * HHV * EF$

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

Year	Fuel	HHV	EF	Calculated Result
2010	Natural Gas	1.028	85.02	Incomplete — View Validation

What result do you want to report to EPA?

Use the calculated result rounded

Enter my own result (value will be rounded)

41

This screen gives an overview of the information that must be entered to complete equation NN-1.

To get started, click “NEXT”.

NN LDC: Gas Received at City Gate Stations

Subpart NN: Suppliers of Natural Gas and Natural Gas Liquids

CO₂ QUANTITIES CALCULATION

Equation NN-6 will calculate CO₂ quantities associated with the combustion or oxidation of natural gas approved for sale under that license for that 400,000 thousand standard cubic feet (mscf) per year. This is done by subtracting the total CO₂ that would result from natural gas delivered to transmission pipelines or other LDCs, natural gas delivered by end users that receives a supply greater than or equal to 400,000 mscf per year and the net natural gas that is liquefied, vented and not used for delivery by the LDC within the reported year from the total CO₂ associated with the natural gas received at the city gate(s) and from local production. For additional information about the CO₂ quantities calculations, please see the e-GGRT Help (M40) provided.

Annual Volume of Natural Gas Received at the City Gate(s)

Total annual volume of natural gas received at the city gate(s)

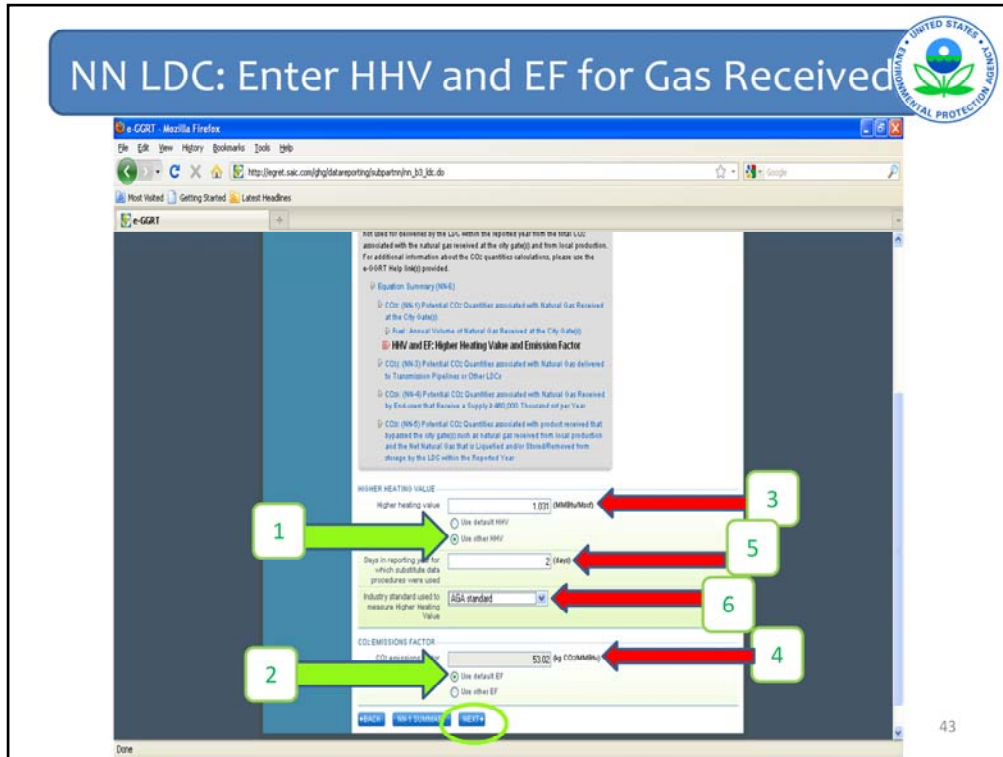
Days in reporting year for which substitute data procedures were used

Industry standard used to measure the volume

Once you arrive at this screen, e-GGRT asks you to enter the total annual volume of natural gas received at city gate stations at location 1. Once this quantity has been entered, enter the number of days substitute data procedures were used to determine this value and the industry method used to determine this value at locations 2 and 3 respectively.

New for 2011, if you used multiple methods during the reporting year to make measurements, eGGRT allows you to select multiple methods in the pull-down. To select multiple methods click on the first method in the pick-list, then hold CTRL and click on a 2nd method, 3rd method, etc.

Once this information has been entered, click “NEXT”.



Once the amount of natural gas received at city gate stations has been submitted, enter the HHV and emission factor associated with that natural gas to complete equation NN-1. e-GGRT gives the user the option of using either the default emission factor and/or HHV from Subpart NN or entering supplier-specific values. Upon arrival at this screen, the radio button next to “Use default HHV” and “Use default EF” will be selected by e-GGRT, these toggles are at locations 1 and 2 on the screen. The default values for these parameters from Subpart NN will also be displayed at locations 3 and 4. To enter your own HHV and/or emission factor, click on the radio button next to “Use other HHV” or “Use other EF”. Next, you would overwrite the default HHV and emission factor at locations 3 and 4. If you enter your own result, you must also enter the number of days missing data procedures were used to determine this value and the industry standard used to measure this value at locations 5 and 6 respectively.

Once you have entered the information, click “NEXT” and e-GGRT will guide you to the pages where you must enter information required to complete equation NN-3.

NN LDC: Equation NN-3 Overview

EPA Environmental Protection Agency

e-GRIT Electronic Greenhouse Gas Reporting Tool

HOME FACILITY REGISTRATION FACILITY MANAGEMENT DATA REPORTING

Help: Home Cook | Site Profile | Logout

e-GRIT Help

Help e-GRIT for Subject Site Reporting

CO2e (MTC) Incorporated (2010)

Subpart NN: Suppliers of Natural Gas and Natural Gas Liquids

Subject Overview » Natural Gas » Eq. NN-3 » Eq. NN-3

CO2 QUANTITIES CALCULATION

Equation NN-3 will calculate CO₂ quantities associated with the combustion or oxidation of natural gas supplied to end-users that receive less than 400,000 thousand standard cubic feet (mscf) per year. This is done by subtracting the total CO₂ that would result from natural gas received to transmission pipelines or other LDCs, natural gas delivered to end-users that receive a supply greater than or equal to 400,000 mscf per year and the net natural gas that is liquefied and/or stored and not used for delivery by the LDC within the reporting year from the total CO₂ associated with the natural gas received at the city gate(s) and from local production. For additional information about the CO₂ quantities calculations, please see the e-GRIT Help (eGRIT) provided.

Eq. NN-3: Potential CO₂ Quantities associated with Natural Gas Delivered to Transmission Pipelines or Other LDCs

- CO₂: (MTC) Potential CO₂ Quantities associated with Natural Gas Received at the City Gate(s)
- Fuel: Annual Volume of Natural Gas Supplied to downstream gas transmission pipelines and other LDCs
- EF: Emission Factor

Eq. NN-4: Potential CO₂ Quantities associated with Natural Gas Received by End-users that Receive a Supply of 400,000 Thousand of per Year

Eq. NN-5: Potential CO₂ Quantities associated with product received that bypassed the city gate(s) or natural gas received from local production and the Net Natural Gas that is Liquefied and/or Stored/Retained from storage by the LDC within the Reporting Year

SUMMARY

Equation NN-3: $CO_2 = \text{Fuel} * EF$

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

Year	Variable	Value	Unit	Calculated Result
2010	Natural Gas			Incomplete - View Validation

What result do you want to report to EPA?

Use the calculated result rounded

Enter my own result (value will be rounded)

44

This is the overview page for equation NN-3 where you will calculate the CO₂ quantity associated with natural gas delivered to downstream pipelines and other LDCs.

To get started, click “NEXT”.

On this screen, at location 1 enter the amount of natural gas delivered to downstream transmission pipelines and other LDCs, and at location 2, enter the number of days missing data procedures were used to determine this volume.

Once this information has been entered, click “NEXT”.

The screenshot displays the EPA e-GRRT interface for Subpart NN. The main content area is titled "Subpart NN: Suppliers of Natural Gas and Natural Gas Liquids". It contains a "CO₂ QUANTITIES CALCULATION" section with explanatory text and a list of potential CO₂ quantities. Below this is the "CO₂ EMISSIONS FACTOR" section, which includes a text input field with the value "0.055 (MT CO₂/MBtu)". A green arrow points to the input field, and a red arrow points to the "NEXT" button. The page also features EPA and e-GRRT logos, navigation tabs, and a sidebar with a "NEXT" button highlighted in a green circle.

Now, enter the CO₂ emission factor associated with the natural gas delivered to downstream transmission pipelines and other LDCs in units of metric tons of CO₂ per thousand standard cubic feet. Notice that the units of the emission factor in equation NN-3 are different than they were in Equation NN-1.

Again, you may use the default emission factor from Subpart NN or your own value. We will use the default value here. We have now entered all required information to complete equation NN-3. We will click “NEXT” to move onto equation NN-4.

NN LDC: Equation NN-4 Overview

Subpart NN: Suppliers of Natural Gas and Natural Gas Liquids

CO₂ QUANTITIES CALCULATION

Equation NN-4 will calculate CO₂ quantities associated with the combustion or oxidation of natural gas supplied to end-users that receive less than 460,000 thousand standard cubic feet (Mcf) per year. This is done by subtracting the total CO₂ that would result from natural gas delivered to transmission pipelines or other LDCs, natural gas delivered to end-users that receive a supply greater than or equal to 460,000 Mcf per year and the net natural gas that is liquefied and stored and not used for delivery by the LDC within the reported year from the total CO₂ associated with the natural gas received at the city gate(s) and from local production. For additional information about the CO₂ quantities calculations, please use the e-GRIT Help (eGRIT) provided.

CO₂ (NN-4) Potential CO₂ Quantities associated with Natural Gas Received at the City Gate(s)

CO₂ (NN-5) Potential CO₂ Quantities associated with Natural Gas Delivered to Transmission Pipelines or Other LDCs

CO₂ (NN-4) Potential CO₂ Quantities associated with Natural Gas Received by End-users that Receive a Supply ≥ 460,000 Thousand scf per Year

CO₂ (NN-5) Potential CO₂ Quantities associated with product received that bypassed the city gate(s) such as natural gas received from local production and the net natural gas that is liquefied and stored/removed from storage by the LDC within the Reported Year

SUMMARY

Equation NN-4: $CO_2 = \text{Fuel} \times EF$

Year	Product	Fuel	EF	Calculated Result
2010	Natural Gas	0	0.055	0

What result do you want to report to EPA? Use the calculated result reported (0 metric tons) Use result (value will be rounded)

NEXT

In equation NN-4, you will determine the CO₂ quantity associated with the natural gas delivered to end users that received at least 460,000 thousand standard cubic feet of natural gas in 2010 through a single meter.

If none of your customers received more than 460,000 thousand standard cubic feet through a single meter in 2010, skip this section and proceed to equation NN-5 by clicking on the description of equation NN-5, at location 1.

If you do have at least one such customer, you will need to enter the name, address, and quantity of natural gas that end-user received in 2010. To begin entering this information, click “NEXT” at location 2.

NN LDC: Add Customer Meter



The screenshot displays the EPA e-GRRT interface for Subpart NN. The main content area is titled "Subpart NN: Suppliers of Natural Gas and Natural Gas Liquids". Below the title, there is a section for "CO₂ QUANTITIES CALCULATION" which explains the methodology for calculating CO₂ emissions from natural gas supply. A table titled "REGISTERED METERS" is visible at the bottom of the page, with a green circle highlighting the "ADD METER" button in the first row. The table has columns for "Customer", "Meter Number", "EIA Number", "Fuel", and "Status".

This screen will show a summary of all the large customer meters on your distribution system once you've provided this information.

To add your first meter, click "ADD METER".

The screenshot shows the EPA e-GGRT interface for adding a customer meter. The form is titled "NN - Supplier 1 LDC (2010)" and "Subpart NN: Suppliers of Natural Gas and Natural Liquids". The "METER DETAILS" section includes the following fields:

- Customer Name: Springfield A&M University (marked with a red arrow and '1')
- Customer Address: 555 Fake St., Springfield, KY, 30000 (marked with a red arrow and '2')
- Meter Number: 222 (marked with a red arrow and '3')
- Customer's EIA Identification number: 890234 (marked with a blue arrow and '5')
- Annual volume of natural gas delivered to meter: 4600000 (Mscf) (marked with a red arrow and '4')

At the bottom of the form, there are "CANCEL" and "SAVE" buttons. The "SAVE" button is highlighted with a green circle. The page number "49" is visible in the bottom right corner.

Enter the name, physical street address, meter number, and the amount of natural gas delivered to the recipient's meter in units of thousand standard cubic feet at locations 1, 2, 3, and 4 respectively.

Additionally, enter the EIA customer number for the recipient of this natural gas, if known, at location 5. Power generating facilities that report to EIA on form EIA-923, the power plant operations report, are each assigned a unique identification number by EIA. This identification number should be reported in location 5 if the number is known by the LDC. Once you've entered this information, click "SAVE".

The screenshot shows the EPA e-GGRT interface for 'Supplier LDC (2010) Subpart NN: Suppliers of Natural Gas and Natural Gas Liquids'. The 'REGISTERED METERS' table is as follows:

Customer	Meter Number	Est Number	Full	Delete
Springfield A&M University	223	900256	4,800,000	X

Annotations in the image include a green circle around the 'ADD Meter' button, a red circle around the 'Delete' column, and a green box with the number '1' pointing to the 'Delete' column header.

We are now back at the screen where you can enter additional meters. This screen allows you to review the information you just entered under the “Registered Meters” heading. Note that the information entered on the previous screen has been transferred to this screen at location 1. To delete this meter, click on the “X” under “Delete”.

To add another customer meter, click “ADD Meter” and repeat the procedures just shown. If this is your only large customer meter, click “NEXT”.

In this example, Springfield A&M University is the only large end use meter on this LDCs distribution system, so we will click “NEXT”.

NN LDC: Enter EF for Equation NN-4



51

Now enter the CO₂ emission factor associated with the natural gas delivered to large end use meters (those who received 460,000 thousand standard cubic feet or more of natural gas). As with the above examples, you can either use a default emission factor or a supplier-specific emission factor.

Once this information has been entered, you have completed equation NN-4, click “NEXT” to move onto equation NN-5.

NN LDC: Equation NN-5 Overview



Equation NN-5 Overview

Equation NN-5 will calculate CO₂ quantities associated with the combustion or oxidation of natural gas required to meet needs that exceed those of 400,000 residential standard cubic feet (scf) per year. This is done by subtracting the total CO₂ that would result from natural gas withdrawn by transmission pipelines or other LDCs, natural gas delivered to end users that exceeds a supply greater than or equal to 400,000 scf per year and the net natural gas that is liquefied, produced and sold and/or delivered by the LDC within the reported year from the total CO₂ associated with the natural gas received at the city gate(s) and from local production. For additional information about the CO₂ quantity calculations, please use the e-GGRT Help (help) page.

Equation Summary (NN-5)

- CO₂ (NN-5) Potential CO₂ Quantities associated with Natural Gas Received at the City Gate(s)
- CO₂ (NN-5) Potential CO₂ Quantities associated with Natural Gas Delivered to Transmission Pipelines or Other LDCs
- CO₂ (NN-5) Potential CO₂ Quantities associated with Natural Gas Received by End users that Exceeds a Supply of 400,000 Thousand scf per Year
- CO₂ (NN-5) Potential CO₂ Quantities associated with product received from local production and the Net Heat of Gas that is Liquefied and/or Stored/Released from storage by the LDC.

Equation NN-5 $CO_2 = [Fuel1 - Fuel2] * EF$

Reset your input element in the equation above to reveal a definition of that element.

Year	Product	Fuel1	Fuel2	EF	Calculated Result
2010	Natural Gas	0	0.055		Incomplete - View Validation

What result do you want to report to EPA? Use the calculated result rounded Enter my own result (value will be rounded)

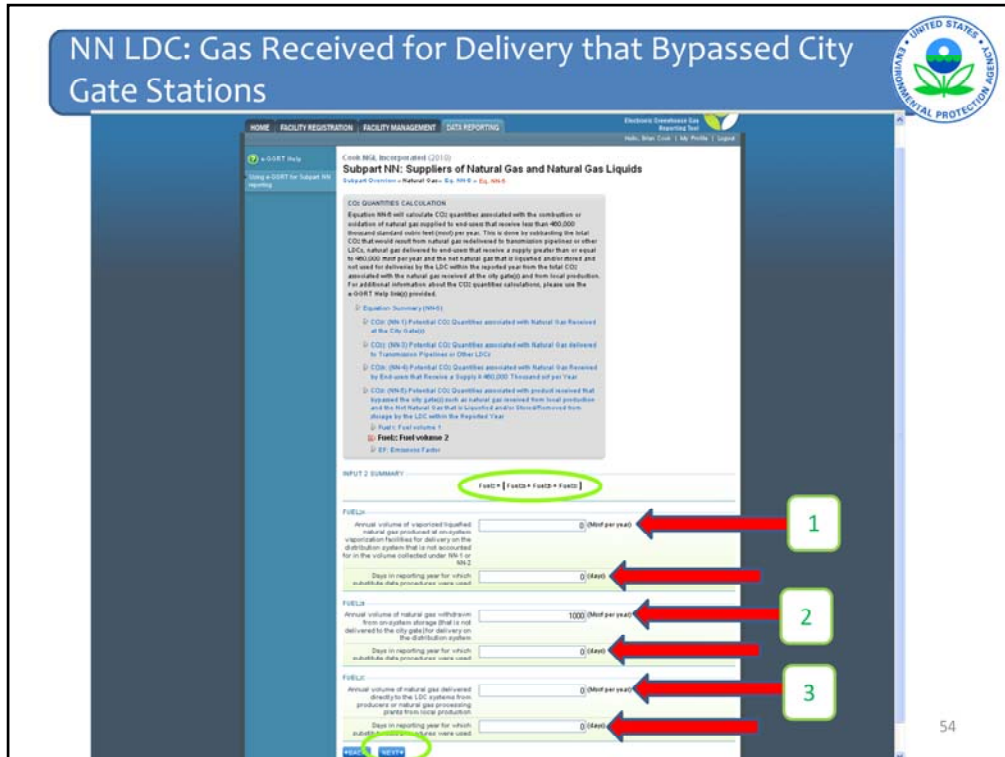
NEXT

52

This screen provides an overview of the information required to complete Equation NN-5 which calculates the CO₂ quantity associated with natural gas placed into or taken out of storage and received from local production.

We will enter a value for “Fuel1” which is amount of natural gas placed into storage in 2010. After that, e-GGRT will guide us through the process to calculate the value for “Fuel2” which is the amount of natural gas delivered that did not come through city gate stations, including gas withdrawn from storage and gas received from local production. Finally, we will enter the emission factor associated with this natural gas. Note that the value calculated by equation NN-5 can be either positive or negative, depending on whether more gas was placed into or withdrawn from storage.

To get started, with equation NN-5 click “NEXT”.



On this screen e-GGRT will calculate the value for “Fuel2”, which is the amount of natural gas delivered in 2010 that was not accounted for in equation NN-1 or NN-2.

Notice there are three components to this equation.

First, under “Fuel2a” enter the amount of vaporized liquefied natural gas produced at on-system vaporization facilities in 2010.

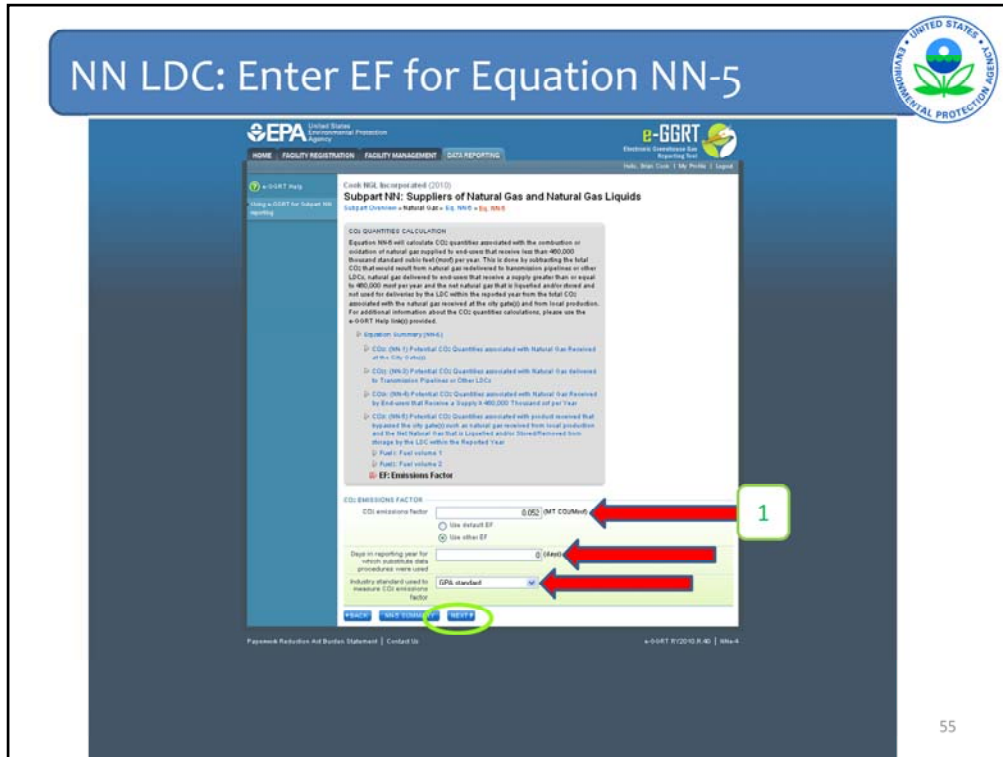
Second, under “Fuel2b” enter the annual volume of natural gas withdrawn from on-system storage in 2010.

Third, enter the amount of natural gas received from local production in the box for “Fuel2c”.

Additionally, enter the number of days missing data procedures were used to determine each of these values.

E-GGRT will take the sum of these three values and call the total “Fuel2”. This is the total amount of natural gas delivered in 2010 which was not accounted for in the amount of natural gas received at city gate stations.

Once all required information has been submitted, click “NEXT” to enter the emission factor.



On this screen enter the emission factor associated with natural gas placed into/withdrawn from storage and received from local production at location 1.

As shown before, use the default emission factor or your site-specific emission factor can be used. It is expected that the emission factor for this equation may be different than the emission factors for other quantities of natural gas reported if gas was received from local production. That's because natural gas received from local production may have different properties than natural gas received from transmission pipelines.

If natural gas was both placed into/removed from storage and received from local production, and each of these quantities have a different emission factor, please use a weighted average to determine the appropriate emission factor to enter.

Once you've entered the number of days missing data procedures were used to determine this value and the industry standard used to measure it, you will have entered all information required by equation NN-5. Click "NEXT" to return to the overview page for equation NN-6.

Equation NN-6

$$CO_2i = CO_2j + CO_2k + CO_2l - \text{Result}$$

Product	CO ₂ i	CO ₂ j	CO ₂ k	CO ₂ l	Result
Natural Gas	273,318	0	25,300	488	247,550

Now that we have completed entering all information required to complete the first four equations, we are back at the equation NN-6 overview page.

The first thing to do when you get to this stage is to review the values e-GGRT calculated based on the information entered so far. These values are circled in green and shown in location 1.

The value labeled as “CO₂i” is the amount of CO₂ associated with the natural gas received at city gate stations in 2010.

The value for “CO₂j” is the quantity of natural gas distributed to downstream transmission pipelines or other LDCs.

“CO₂k”, is the CO₂ quantity associated with natural gas delivered to our large end user.

Finally, “CO₂l” is the amount of CO₂ associated with natural gas placed into storage less the amount withdrawn from storage and received from local production.

In order to calculate the amount of CO₂ associated with natural gas delivered to end-users that received less than 460,000 thousand standard cubic feet in 2010, eGGRT subtracts CO₂j, CO₂k, and CO₂l from CO₂i. The arithmetic performed is shown on the screen at location 2. This result is shown under “Result” at location 3 and in the calculator box at location 4.

It is important to review the values of CO₂i, j, k, and l on this screen. If all the information entered is correct, click “FINISHED” to return to the Subpart NN overview screen.

The screenshot displays the EPA e-GGRT interface for Subpart NN reporting. The main heading is "Subpart NN: Suppliers of Natural Gas and Natural Gas Liquids". Below this, there is an "OVERVIEW OF SUBPART REPORTING REQUIREMENTS FOR LOCAL DISTRIBUTION COMPANIES (LDCs)" section. A "GHG SUMMARY" table is shown with the following data:

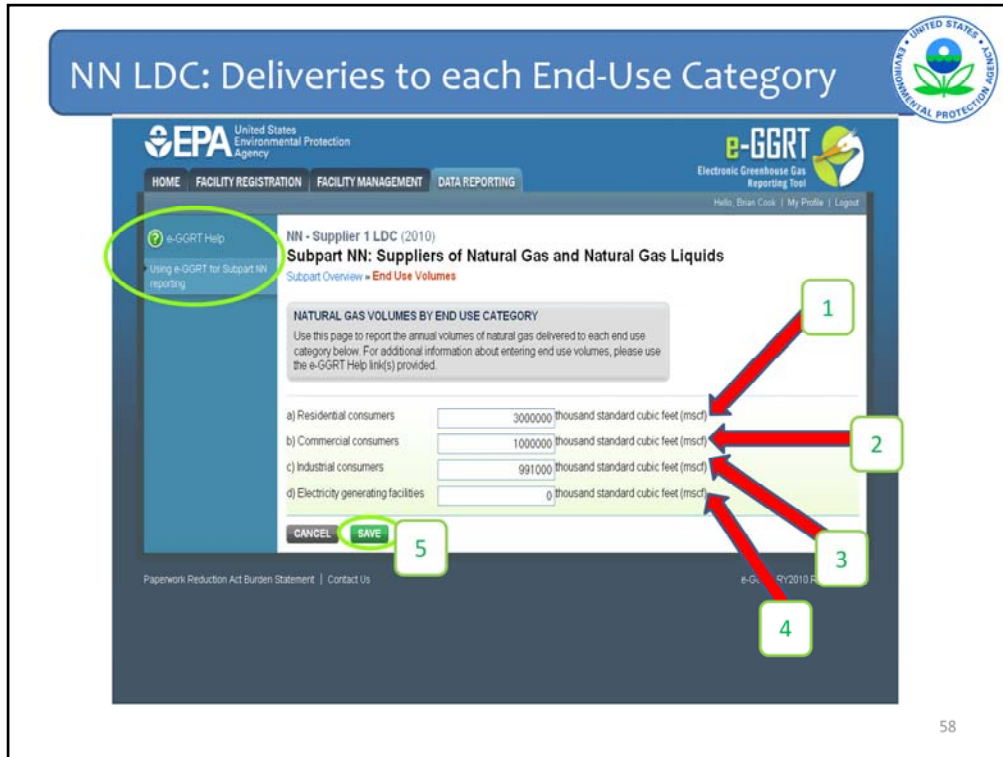
Product	CO ₂ (metric tons)	Status
Natural Gas	247,550	Complete

Below the table, there is a section for "NATURAL GAS VOLUMES BY END USE CATEGORY (MSCF)" with tabs for Residential Consumers, Commercial Consumers, Industrial Consumers, and Electricity Generating Facilities. A "Facility Overview" link is also present. Red callouts '1' and '2' highlight the "Subpart NN: View Validation" link and the "OPEN" button under the "NATURAL GAS VOLUMES BY END USE CATEGORY" heading, respectively.

On the Subpart NN LDC overview page, notice that the quantity of CO₂ associated with natural gas delivered to end users that received a supply of less than 460,000 thousand standard cubic feet in 2010, as was calculated in equation NN-6, has been mapped over to the GHG Summary at location 1. Additionally, the “Status” of the natural gas report has switched from “Incomplete” to “Complete”.

There’s just one task left to perform and that is to enter the amount of natural gas delivered to residential, commercial, industrial, and electricity generating facilities.

To get started with this task click “OPEN” underneath the “NATURAL GAS VOLUMES BY END USE CATEGORY” heading at location 2.



On this screen enter the amount of natural gas delivered to residential consumers, commercial consumers, industrial consumers, and electricity generating facilities. Enter these four values in the space provided.

For definitions of the end-use categories please see the Energy Information Administration’s (EIA) form 176 and instructions. For example, it might not be obvious how to classify natural gas deliveries to users like military bases, the proper way to do so is provided by EIA. Note that you can click on e-GGRT help in the upper left hand corner when questions like this arise as you progress through e-GGRT’s webforms.

When you report the quantity of gas delivered to each of the 4 end-use categories make sure to include the following:

Natural Gas delivered and owned by your LDC,

Natural Gas delivered to end-users by your LDC that IS NOT OWNED by your LDC,

Any deliveries to facilities whom receive greater than 460,000 mscf of natural gas per year as reported in Equation NN-4.

Once the information has been entered, click “SAVE” at location 5 to return to the LDC overview page.

Subpart NN Reporting: LDC Overview

EPA United States Environmental Protection Agency

e-GGRT Electronic Greenhouse Gas Reporting Tool

HOME FACILITY REGISTRATION FACILITY MANAGEMENT DATA REPORTING

Help, Brian Cook | My Profile | Logout

Subpart NN: Suppliers of Natural Gas and Natural Gas Liquids

Subpart Overview

OVERVIEW OF SUBPART REPORTING REQUIREMENTS FOR LOCAL DISTRIBUTION COMPANIES (LDCs)

Subpart NN requires affected natural gas LDCs to report the quantity of CO₂ that would result from the complete combustion or oxidation of the annual volumes of natural gas provided to end-users on their distribution systems. First, enter fuel supply and Greenhouse gas (GHG) data required by Subpart NN. Next, enter the natural gas volumes supplied to residential, commercial and industrial consumers and electricity generating facilities. For additional information about Subpart NN reporting, please use the e-GGRT help link(s) provided.

Supplier Type* LDC: Natural gas local distribution company CHANGE

GHG SUMMARY

Product	CO ₂ (metric tons)	Status ¹
Natural Gas	247,550	Complete

NATURAL GAS VOLUMES BY END USE CATEGORY (MSCF)

Residential Consumers	Commercial Consumers	Industrial Consumers	Electricity Generating Facilities
3,000,000	1,000,000	991,000	0

Subpart NN: No Validation Messages

Facility Overview

¹A status of "Incomplete" means that one or more data elements that are inputs to one of this subpart's equations are incomplete. As a result, e-GGRT is unable to perform the necessary calculation(s). For details, refer to the Equation Completeness validation messages in your Validation

59


Now that we are back on the LDC overview page, notice the quantity of natural gas delivered to each end-use category is shown at location 1.

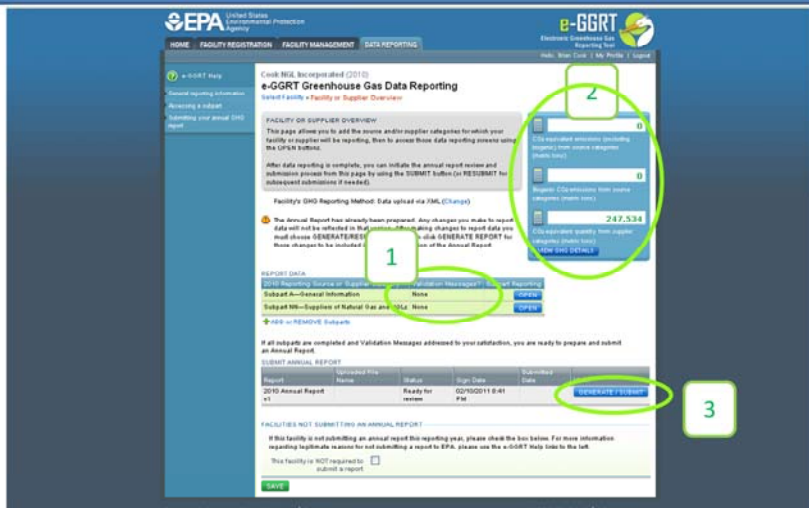
Also notice that a checkbox has replaced the validation warning symbol at location 2 which indicates e-GGRT has not noted any validation issues in the data that has been entered.

At this point, we have entered all necessary data to complete the Subpart NN report for this LDC.

The user would next click on "Facility Overview" to enter information for other subparts they must report under or to submit the GHG report.

NN LDC: Submit your Report





60

On the “Facility or Supplier Overview” screen e-GGRT provides one last chance to check for any validation messages. If there were any validation issues these would exist under “Validation Messages” at location 1. However, all information has been properly entered so e-GGRT displays “None”.

The total amount of GHGs to be reported by this supplier is shown in the calculator boxes in the upper right corner at location 2.

The final step is to begin the process to submit the report by clicking “Generate/Submit” at location 3. Details of this process are not shown here but for instructions on how to submit your report please find the training material available on our website: <http://www.epa.gov/climatechange/emissions/training.html>.

This will conclude our training session for Subpart NN.

Questions?



- e-GGRT Information & Help
 - <http://www.ccdsupport.com>
 - Email: GHGreporting@epa.gov
- GHG Reporting Rule Information & Help
 - <http://www.epa.gov/ghgreporting/reporters/index.html>
 - Email: GHGMRR@epa.gov
- Read more about XML Upload Option
 - http://www.epa.gov/ghgreporting/reporters/datasystem/e-ggrrt_xml.html

75

We hope this overview has provided you greater familiarity with navigating and entering information using the e-GGRT reporting tool.

=



88ku

