

1. Subpart UU - Injection of Carbon Dioxide .....	2
1.1 Using e-GGRT to Prepare Your Subpart UU Report .....	2
1.1.1 Subpart UU Annual Mass of CO2 Received Information .....	4
1.1.2 Subpart UU Facility Information .....	8
1.1.3 Subpart UU Flow Meter or Container Information .....	9
1.1.4 Subpart UU Validation Report .....	11

# Subpart UU - Injection of Carbon Dioxide



## e-GGRT Sandbox Disclaimer

All aspects of the e-GGRT Sandbox are provided for testing and familiarization purposes only. The e-GGRT sandbox system and the resources supporting this system (i.e., help content, reporting forms, calculation spreadsheets, etc.) are preliminary, subject to change and, in most cases, will not be used for actual reporting in their current state. Data in the sandbox system is NOT considered confidential and will not be protected as confidential. Data entered into the sandbox environment will not be accessible to the user once the sandbox period closes and will not be held over for official reporting. All submitted information may be monitored, recorded, read, copied, and disclosed by and to authorized personnel.

To register to participate in or access the e-GGRT sandbox preview, go to <http://sandbox.ccdsupport.com>. If have questions regarding the e-GGRT sandbox please contact the [GHGRP Help Desk](#)



A printer-friendly version (pdf) (8 pp, 892K) of GHG reporting instructions for this subpart (*coming soon*)

Please select a help topic from the list below:

- [Using e-GGRT to Prepare Your Subpart UU Report](#)
  - [Subpart UU Annual Mass of CO2 Received Information](#)
  - [Subpart UU Facility Information](#)
  - [Subpart UU Flow Meter or Container Information](#)
  - [Subpart UU Validation Report](#)
- [Subpart UU Rule Guidance](#)
- [Subpart UU Rule Language \(eCFR\)](#)

Additional Resources:

- [Part 98 Terms and Definitions](#)
- [Frequently Asked Questions \(FAQs\)](#)
- [Subpart UU Webinar Slides](#)

## Using e-GGRT to Prepare Your Subpart UU Report



### e-GGRT Sandbox Disclaimer

All aspects of the e-GGRT Sandbox are provided for testing and familiarization purposes only. The e-GGRT sandbox system and the resources supporting this system (i.e., help content, reporting forms, calculation spreadsheets, etc.) are preliminary, subject to change and, in most cases, will not be used for actual reporting in their current state. Data in the sandbox system is NOT considered confidential and will not be protected as confidential. Data entered into the sandbox environment will not be accessible to the user once the sandbox period closes and will not be held over for official reporting. All submitted information may be monitored, recorded, read, copied, and disclosed by and to authorized personnel.

To register to participate in or access the e-GGRT sandbox preview, go to <http://sandbox.ccdsupport.com>. If have questions regarding the e-GGRT sandbox please contact the [GHGRP Help Desk](#)

This page provides an overview of subtopics that are central to Subpart UU reporting. This information will be entered from the e-GGRT Subpart UU Overview web form shown below. Each topic represents a key web form where you need to enter information:

- [Subpart UU Facility Information](#)
- [Subpart UU Flow Meters and Containers](#)
- [Subpart UU Annual Mass of CO2 Received Information](#)
- [Subpart UU Validation Report](#)

The end of this overview page provides links for more detailed information and instructions on entering required information related to each of these topics.

The Injection of Carbon Dioxide (CO<sub>2</sub>) source category comprises any well or group of wells that inject a CO<sub>2</sub> stream into the subsurface. If you report under subpart RR (Geological Sequestration of Carbon Dioxide (CO<sub>2</sub>)) for a well or group of wells, you are not required to report under subpart UU for that well or group of wells. A facility that is subject to 40 CFR 98 only because it is subject to subpart UU is not required to report emissions under subpart C or any other subpart listed in 40 CFR 98.2(a)(1) or (a)(2).

## Subpart UU Facility Information

Use this page to identify each source of the CO<sub>2</sub> received at your facility during the reporting year.

*Click image to expand*

**EPA** United States Environmental Protection Agency

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

HOME FACILITY REGISTRATION FACILITY MANAGEMENT DATA REPORTING

Help: Mail Us | My Profile | Logout

**Subpart UU: Injection of Carbon Dioxide (2011)**

**Subpart Overview**

**OVERVIEW OF SUBPART UU REPORTING REQUIREMENTS**  
The Injection of Carbon Dioxide (CO<sub>2</sub>) source category comprises any well or group of wells that inject a CO<sub>2</sub> stream into the subsurface. If you report under subpart RR (Geological Sequestration of Carbon Dioxide (CO<sub>2</sub>)) for a well or group of wells, you are not required to report under subpart UU for that well or group of wells. A facility that is subject to 40 CFR 98 only because it is subject to subpart UU is not required to report emissions under subpart C or any other subpart listed in 40 CFR 98.2(a)(1) or (a)(2).  
For additional information about Subpart UU reporting, please use the e-GGRT Help link(s) provided.

**FACILITY INFORMATION**

**Sources of CO<sub>2</sub> Received**  
None identified [OPEN](#)

**FLOW METERS AND CONTAINERS**

Unit Name/Identifier	Type	Measurement Basis	CO <sub>2</sub> (metric tons)	Status	Delete
None entered					

[+Add a Flow Meter or Container](#)

[Facility Overview](#)

\*A status of "Incomplete" means that one or more required data elements are incomplete. For details, refer to the Data Completeness validation messages in your Validation Report by clicking the "View Validation" link above (note: if there are no validation messages for this subpart you will not see this link).

Paperwork Reduction Act Burden Statement | Contact Us

e-GGRT RY2011-T2R 1B | UU-overview

[Back to Top](#)

## Subpart UU Flow Meters and Containers

Use this page to uniquely identify each receiving flow meter or container.

[Back to Top](#)

## Subpart UU Annual Mass of CO<sub>2</sub> Received Information

For a mass flow meter, you must calculate the total annual mass of CO<sub>2</sub> in a CO<sub>2</sub> stream received metric tons by multiplying the mass flow by the CO<sub>2</sub> concentration in the flow, according to Equation UU-1.

For a container, you must calculate the total annual mass of CO<sub>2</sub> received in metric tons by multiplying the mass by the CO<sub>2</sub> concentration in the container, according to Equation UU-1.

[Back to Top](#)

## Subpart UU Validation Report

You can use the Validation Report to assist with the completeness and quality of your reporting data.

You should use the Validation Report to check your work. The Validation Report performs three types of checks:

- **Data Completeness:** Data that are required for reporting are missing or incomplete.
- **Data Quality:** Data are outside of the expected range of values.
- **Screen Errors:** Critical errors which prevent the acceptance of the reported data. Typically these will appear on the upload page.

You may view the Validation Report at any time.



Note that the Validation Report is intended to assist users in entering data, but it is not an indication that the reporter has entered all necessary information, nor is it an indication that the reporter is in compliance with part 98. Furthermore a negative finding on the validation report is not a guarantee that a data element was entered incorrectly.

[Back to Top](#)

## Subpart UU Annual Mass of CO<sub>2</sub> Received Information



### e-GGRT Sandbox Disclaimer

All aspects of the e-GGRT Sandbox are provided for testing and familiarization purposes only. The e-GGRT sandbox system and the resources supporting this system (i.e., help content, reporting forms, calculation spreadsheets, etc.) are preliminary, subject to change and, in most cases, will not be used for actual reporting in their current state. Data in the sandbox system is NOT considered confidential and will not be protected as confidential. Data entered into the sandbox environment will not be accessible to the user once the sandbox period closes and will not be held over for official reporting. All submitted information may be monitored, recorded, read, copied, and disclosed by and to authorized personnel.

To register to participate in or access the e-GGRT sandbox preview, go to <http://sandbox.ccdsupport.com>. If have questions regarding the e-GGRT sandbox please contact the [GHGRP Help Desk](#)

For a mass flow meter, you must calculate the total annual mass of CO<sub>2</sub> in a CO<sub>2</sub> stream received metric tons by multiplying the mass flow by the CO<sub>2</sub> concentration in the flow, according to Equation UU-1.

For a container, you must calculate the total annual mass of CO<sub>2</sub> received in metric tons by multiplying the mass by the CO<sub>2</sub> concentration in the container, according to Equation UU-1.

*Click image to expand*

**Subpart UU: Injection of Carbon Dioxide (2011)**  
Subpart Overview » Flow Meter FM 1 » Eq. UU-1

**NET ANNUAL MASS OF CO<sub>2</sub> RECEIVED**  
For a mass flow meter, you must calculate the total annual mass of CO<sub>2</sub> in a CO<sub>2</sub> stream received in metric tons by multiplying the mass flow by the CO<sub>2</sub> concentration in the flow, according to Equation UU-1.

**Equation Summary (UU-1)**  
Q: Quarterly Mass Received  
S: Quarterly Mass Redelivered  
C: Quarterly CO<sub>2</sub> Concentration

**EQUATION UU-1 SUMMARY AND RESULT**

$$CO_{2T} = \sum_{p=1}^4 (Q_{p} \cdot S_{p}) \times C_{CO_{2p}}$$

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

Quarter	Q (metric tons)	S (metric tons)	C (wt. %CO <sub>2</sub> )	Result
1				
2				
3				
4				

Incomplete — [View Validation](#)

Report which CO<sub>2</sub> result? ☒ Use the calculated result rounded ☐ Enter my own result (value will be rounded)

[FINISHED](#) [CANCEL](#) [NEXT](#)

Begin by selecting 'NEXT'

### Entering Quarterly Mass Received Information

Please provide the mass flow through the receiving flow meter for each quarter.

*Click image to expand*

United States  
Environmental Protection  
Agency

e-GGRT  
Electronic Greenhouse Gas  
Reporting Tool  
Help | Mail Me | My Profile | Logout

HOME | FACILITY REGISTRATION | FACILITY MANAGEMENT | DATA REPORTING

+GGRT Help

R H H Environmental  
**Subpart UU: Injection of Carbon Dioxide (2011)**  
Subpart Overview » Flow Meter FM 1 » Eq. UU-1

**QUARTERLY MASS RECEIVED**  
Please provide the mass flow through the receiving flow meter for each quarter. For additional information about about entering mass flow data, please use the e-GGRT Help link(s) provided.  

- Equation Summary (UU-1)
- Q: Quarterly Mass Received
- S: Quarterly Mass Redelivered
- C: Quarterly CO<sub>2</sub> Concentration

MASS FLOW (QUARTER 1, JANUARY TO MARCH)

Mass flow through the receiving flow meter in the quarter: 25 (metric tons)

Standard or method used to calculate the Mass flow through the receiving flow meter in the quarter: ASME MFC 11M-2006

Number of days for which substitute data procedures were used to calculate the Mass flow through the receiving flow meter in the quarter: 0 (days)

MASS FLOW (QUARTER 2, APRIL TO JUNE)

Mass flow through the receiving flow meter in the quarter: 25 (metric tons)

Standard or method used to calculate the Mass flow through the receiving flow meter in the quarter: ASME MFC 11M-2006

Number of days for which substitute data procedures were used to calculate the Mass flow through the receiving flow meter in the quarter: 0 (days)

MASS FLOW (QUARTER 3, JULY TO SEPTEMBER)

Mass flow through the receiving flow meter in the quarter: 25 (metric tons)

Standard or method used to calculate the Mass flow through the receiving flow meter in the quarter: ASME MFC 11M-2006

Number of days for which substitute data procedures were used to calculate the Mass flow through the receiving flow meter in the quarter: 0 (days)

MASS FLOW (QUARTER 4, OCTOBER TO DECEMBER)

Mass flow through the receiving flow meter in the quarter: 25 (metric tons)

Standard or method used to calculate the Mass flow through the receiving flow meter in the quarter: ASME MFC 11M-2006

Number of days for which substitute data procedures were used to calculate the Mass flow through the receiving flow meter in the quarter: 0 (days)

+BACK | NEXT+

Paperwork Reduction Act Burden Statement | Contact Us

e-GGRT RY2011-T2.R.18 | UU-unit-6

## Entering Quarterly Mass Received That Is Redelivered Information

Please provide the mass flow through the receiving flow meter that is redelivered to another facility without being injected into your well for each quarter.

*Click image to expand*

United States  
Environmental Protection  
Agency

e-GGRT  
Electronic Greenhouse Gas  
Reporting Tool  
Help, Mail Us | My Profile | Logout

HOME
FACILITY REGISTRATION
FACILITY MANAGEMENT
DATA REPORTING

+GGRT Help

R H H Environmental  
**Subpart UU: Injection of Carbon Dioxide (2011)**  
[Subpart Overview](#) » [Flow Meter FM 1](#) » [Eq. UU-1](#)

**QUARTERLY MASS RECEIVED THAT IS REDELIVERED**  
Please provide the mass flow through the receiving flow meter that is redelivered to another facility without being injected into your well for each quarter. For additional information about entering mass flow data, please use the e-GGRT Help link(s) provided.  

[Equation Summary \(UU-1\)](#)  

Q: Quarterly Mass Received  
S: Quarterly Mass Redelivered  
C: Quarterly CO<sub>2</sub> Concentration

MASS FLOW REDELIVERED (QUARTER 1, JANUARY TO MARCH)

Mass flow through the receiving flow meter that is redelivered to another facility without being injected into your well in the quarter
10 (metric tons)

Standard or method used to calculate the Mass Flow through the receiving flow meter that is redelivered to another facility without being injected into your well in the quarter
ASME MFC 11M-2006

Number of days for which substitute data procedures were used to calculate the Mass Flow through the receiving flow meter that is redelivered to another facility without being injected into your well in the quarter
0 (days)

MASS FLOW REDELIVERED (QUARTER 2, APRIL TO JUNE)

Mass flow through the receiving flow meter that is redelivered to another facility without being injected into your well in the quarter
10 (metric tons)

Standard or method used to calculate the Mass Flow through the receiving flow meter that is redelivered to another facility without being injected into your well in the quarter
ASME MFC 11M-2006

Number of days for which substitute data procedures were used to calculate the Mass Flow through the receiving flow meter that is redelivered to another facility without being injected into your well in the quarter
0 (days)

MASS FLOW REDELIVERED (QUARTER 3, JULY TO SEPTEMBER)

Mass flow through the receiving flow meter that is redelivered to another facility without being injected into your well in the quarter
10 (metric tons)

Standard or method used to calculate the Mass Flow through the receiving flow meter that is redelivered to another facility without being injected into your well in the quarter
ASME MFC 11M-2006

Number of days for which substitute data procedures were used to calculate the Mass Flow through the receiving flow meter that is redelivered to another facility without being injected into your well in the quarter
0 (days)

MASS FLOW REDELIVERED (QUARTER 4, OCTOBER TO DECEMBER)

Mass flow through the receiving flow meter that is redelivered to another facility without being injected into your well in the quarter
10 (metric tons)

Standard or method used to calculate the Mass Flow through the receiving flow meter that is redelivered to another facility without being injected into your well in the quarter
ASME MFC 11M-2006

Number of days for which substitute data procedures were used to calculate the Mass Flow through the receiving flow meter that is redelivered to another facility without being injected into your well in the quarter
0 (days)

[BACK](#)
[NEXT](#)

Paperwork Reduction Kit Burden Statement | Contact Us

e-GGRT RV2011-12 R 18 | U.S. EPA

## Entering Quarterly Carbon Dioxide Concentration

Please provide the concentration of carbon dioxide (CO<sub>2</sub>) in the flow meter's mass flow for each quarter.

*Click image to expand*

United States Environmental Protection Agency

Electronic Greenhouse Gas Reporting Tool

HOME | FACILITY REGISTRATION | FACILITY MANAGEMENT | DATA REPORTING

Help, Mail Me | My Profile | Logout

e-GGRT Help

R.H.H Environmental  
**Subpart UU: Injection of Carbon Dioxide (2011)**  
Subpart Overview » Flow Meter FM 1 » Eq. UU-1

**QUARTERLY CARBON DIOXIDE CONCENTRATION**  
Please provide the concentration of carbon dioxide (CO<sub>2</sub>) in the flow meter's mass flow for each quarter. For additional information about about entering concentration data, please use the e-GGRT Help link(s) provided.  

- Equation Summary (UU-1)
  - Q: Quarterly Mass Received
  - S: Quarterly Mass Redelivered
  - C: Quarterly CO<sub>2</sub> Concentration

MASS CO<sub>2</sub> CONCENTRATION (QUARTER 1, JANUARY TO MARCH)  
CO<sub>2</sub> concentration in the quarter:  (weight %CO<sub>2</sub> as a decimal fraction, 0 ≤ x ≤ 1.0)  
Standard or method used to calculate CO<sub>2</sub> concentration in the quarter:   
Were substitute data procedures used to calculate the CO<sub>2</sub> concentration in the quarter? ☐ Yes

MASS CO<sub>2</sub> CONCENTRATION (QUARTER 2, APRIL TO JUNE)  
CO<sub>2</sub> concentration in the quarter:  (weight %CO<sub>2</sub> as a decimal fraction, 0 ≤ x ≤ 1.0)  
Standard or method used to calculate CO<sub>2</sub> concentration in the quarter:   
Were substitute data procedures used to calculate the CO<sub>2</sub> concentration in the quarter? ☐ Yes

MASS CO<sub>2</sub> CONCENTRATION (QUARTER 3, JULY TO SEPTEMBER)  
CO<sub>2</sub> concentration in the quarter:  (weight %CO<sub>2</sub> as a decimal fraction, 0 ≤ x ≤ 1.0)  
Standard or method used to calculate CO<sub>2</sub> concentration in the quarter:   
Were substitute data procedures used to calculate the CO<sub>2</sub> concentration in the quarter? ☐ Yes

MASS CO<sub>2</sub> CONCENTRATION (QUARTER 4, OCTOBER TO DECEMBER)  
CO<sub>2</sub> concentration in the quarter:  (weight %CO<sub>2</sub> as a decimal fraction, 0 ≤ x ≤ 1.0)  
Standard or method used to calculate CO<sub>2</sub> concentration in the quarter:   
Were substitute data procedures used to calculate the CO<sub>2</sub> concentration in the quarter? ☐ Yes

Paperwork Reduction Act Burden Statement | Contact Us

e-GGRT RV2011-T2 R 18 | UU-link-1

Select 'SUMMARY'

Click image to expand

United States Environmental Protection Agency

Electronic Greenhouse Gas Reporting Tool

HOME | FACILITY REGISTRATION | FACILITY MANAGEMENT | DATA REPORTING

Help, Mail Me | My Profile | Logout

e-GGRT Help

R.H.H Environmental  
**Subpart UU: Injection of Carbon Dioxide (2011)**  
Subpart Overview » Flow Meter FM 1 » Eq. UU-1

**NET ANNUAL MASS OF CO<sub>2</sub> RECEIVED**  
For a mass flow meter, you must calculate the total annual mass of CO<sub>2</sub> in a CO<sub>2</sub> stream received in metric tons by multiplying the mass flow by the CO<sub>2</sub> concentration in the flow, according to Equation UU-1.  

- Equation Summary (UU-1)
  - Q: Quarterly Mass Received
  - S: Quarterly Mass Redelivered
  - C: Quarterly CO<sub>2</sub> Concentration

Eq. UU-1: Annual mass of CO<sub>2</sub> (metric tons)

**EQUATION UU-1 SUMMARY AND RESULT**  

$$CO_{2T} = \sum_{i=1}^4 (Q_{i,T} \times S_{i,T}) \times C_{CO_2,i}$$

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

Quarter	Q (metric tons)	S (metric tons)	C (wt. %CO <sub>2</sub> )	Result
1	25	10	0.85	12.75
2	25	10	0.85	12.75
3	25	10	0.85	12.75
4	25	10	0.85	12.75
				<b>51</b>

Report which CO<sub>2</sub> result? ☒ Use the calculated result rounded (51 metric tons)  
☐ Enter my own result (value will be rounded)

Paperwork Reduction Act Burden Statement | Contact Us

e-GGRT RV2011-T2 R 18 | UU-link-summary

Select 'NEXT'. e-GGRT will return to the subpart UU Overview screen

Click image to expand

**Subpart UU: Injection of Carbon Dioxide (2011)**  
Subpart Overview

**OVERVIEW OF SUBPART UU REPORTING REQUIREMENTS**  
The Injection of Carbon Dioxide (CO<sub>2</sub>) source category comprises any well or group of wells that inject a CO<sub>2</sub> stream into the subsurface. If you report under subpart RR (Geological Sequestration of Carbon Dioxide (CO<sub>2</sub>)) for a well or group of wells, you are not required to report under subpart UU for that well or group of wells. A facility that is subject to 40 CFR 98 only because it is subject to subpart UU is not required to report emissions under subpart C or any other subpart listed in 40 CFR 98.2(a)(1) or (a)(2).

For additional information about Subpart UU reporting, please use the e-GGRT Help link(s) provided.

**FACILITY INFORMATION**  
Sources of CO<sub>2</sub> Received  
CO<sub>2</sub> production wells, Electric generating unit [OPEN](#)

**FLOW METERS AND CONTAINERS**

Unit Name/Identifier	Type	Measurement Basis	CO <sub>2</sub> (metric tons)	Status <sup>1</sup>		Delete
Container 1	Container	Mass		Incomplete	<a href="#">OPEN</a>	✖
FM 1	Flow Meter	Mass	51.0	Complete	<a href="#">OPEN</a>	✖

[ADD a Flow Meter or Container](#)

[Facility Overview](#)

<sup>1</sup>A status of "Incomplete" means that one or more required data elements are incomplete. For details, refer to the Data Completeness validation messages in your Validation Report by clicking the "View Validation" link above (Note: if there are no validation messages for this subpart you will not see this link).

Data entry for the CO<sub>2</sub> mass received for a container follows similarly

Click image to expand

**Subpart UU: Injection of Carbon Dioxide (2011)**  
Subpart Overview

**OVERVIEW OF SUBPART UU REPORTING REQUIREMENTS**  
The Injection of Carbon Dioxide (CO<sub>2</sub>) source category comprises any well or group of wells that inject a CO<sub>2</sub> stream into the subsurface. If you report under subpart RR (Geological Sequestration of Carbon Dioxide (CO<sub>2</sub>)) for a well or group of wells, you are not required to report under subpart UU for that well or group of wells. A facility that is subject to 40 CFR 98 only because it is subject to subpart UU is not required to report emissions under subpart C or any other subpart listed in 40 CFR 98.2(a)(1) or (a)(2).

For additional information about Subpart UU reporting, please use the e-GGRT Help link(s) provided.

**FACILITY INFORMATION**  
Sources of CO<sub>2</sub> Received  
CO<sub>2</sub> production wells, Electric generating unit [OPEN](#)

**FLOW METERS AND CONTAINERS**

Unit Name/Identifier	Type	Measurement Basis	CO <sub>2</sub> (metric tons)	Status <sup>1</sup>		Delete
Container 1	Container	Mass	231.0	Complete	<a href="#">OPEN</a>	✖
FM 1	Flow Meter	Mass	51.0	Complete	<a href="#">OPEN</a>	✖

[ADD a Flow Meter or Container](#)

[Facility Overview](#)

<sup>1</sup>A status of "Incomplete" means that one or more required data elements are incomplete. For details, refer to the Data Completeness validation messages in your Validation Report by clicking the "View Validation" link above (Note: if there are no validation messages for this subpart you will not see this link).

## Subpart UU Facility Information



### e-GGRT Sandbox Disclaimer

All aspects of the e-GGRT Sandbox are provided for testing and familiarization purposes only. The e-GGRT sandbox system and the resources supporting this system (i.e., help content, reporting forms, calculation spreadsheets, etc.) are preliminary, subject to change and, in most cases, will not be used for actual reporting in their current state. Data in the sandbox system is NOT considered confidential and will not be protected as confidential. Data entered into the sandbox environment will not be accessible to the user once the sandbox period closes and will not be held over for official reporting. All submitted information may be monitored, recorded, read, copied, and disclosed by and to authorized personnel.

To register to participate in or access the e-GGRT sandbox preview, go to <http://sandbox.ccdsupport.com>. If have questions regarding the e-GGRT sandbox please contact the [GHGRP Help Desk](#)

This page provides a description of how to enter Subpart UU Injection of Carbon Dioxide facility information about this facility.

### Adding or Updating Summary Information for this Facility

To add or update facility information, locate the FACILITY INFORMATION table on the Subpart UU Overview page and click OPEN.

Click image to expand



**R H H Environmental**  
**Subpart UU: Injection of Carbon Dioxide (2011)**  
 Subpart Overview

**OVERVIEW OF SUBPART UU REPORTING REQUIREMENTS**  
 The Injection of Carbon Dioxide (CO<sub>2</sub>) source category comprises any well or group of wells that inject a CO<sub>2</sub> stream into the subsurface. If you report under subpart RR (Geological Sequestration of Carbon Dioxide (CO<sub>2</sub>)) for a well or group of wells, you are not required to report under subpart UU for that well or group of wells. A facility that is subject to 40 CFR 98 only because it is subject to subpart UU is not required to report emissions under subpart C or any other subpart listed in 40 CFR 98.2(a)(1) or (a)(2).

For additional information about Subpart UU reporting, please use the e-GGRT Help link(s) provided.

**FACILITY INFORMATION**  
**Sources of CO<sub>2</sub> Received**  
 None identified [OPEN](#)

**FLOW METERS AND CONTAINERS**

Unit Name/Identifier	Type	Measurement Basis	CO <sub>2</sub> (metric tons)	Status <sup>1</sup>	Delete
None entered					

[ADD a Flow Meter or Container](#)

[Facility Overview](#)

<sup>1</sup>A status of "incomplete" means that one or more required data elements are incomplete. For details, refer to the Data Completeness validation messages in your Validation Report by clicking the "View Validation" link above (Note: if there are no validation messages for this subpart you will not see this link).

## The source of CO<sub>2</sub> received

Use this page to identify each source of the CO<sub>2</sub> received at your facility during the reporting year.

Click image to expand

**R H H Environmental**  
**Subpart UU: Injection of Carbon Dioxide (2011)**  
 Subpart Overview [Sources of CO<sub>2</sub> Received](#)

**SOURCES OF CO<sub>2</sub> RECEIVED**  
 Use this page to identify each source of the CO<sub>2</sub> received at your facility during the reporting year.

**SOURCES OF CO<sub>2</sub> RECEIVED**

Identify source(s) of CO<sub>2</sub> received

- ☒ CO<sub>2</sub> production wells
- ☒ Electric generating unit
- ☐ Ethanol plant
- ☐ Pulp and paper mill
- ☐ Natural gas processing
- ☐ Gasification operations
- ☐ Other anthropogenic source
- ☐ Discontinued enhanced oil and gas recovery project
- ☐ Unknown

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

Select 'SAVE'. e-GGRT returns to the subpart UU Overview screen

Click image to expand

**R H H Environmental**  
**Subpart UU: Injection of Carbon Dioxide (2011)**  
 Subpart Overview

**OVERVIEW OF SUBPART UU REPORTING REQUIREMENTS**  
 The Injection of Carbon Dioxide (CO<sub>2</sub>) source category comprises any well or group of wells that inject a CO<sub>2</sub> stream into the subsurface. If you report under subpart RR (Geological Sequestration of Carbon Dioxide (CO<sub>2</sub>)) for a well or group of wells, you are not required to report under subpart UU for that well or group of wells. A facility that is subject to 40 CFR 98 only because it is subject to subpart UU is not required to report emissions under subpart C or any other subpart listed in 40 CFR 98.2(a)(1) or (a)(2).

For additional information about Subpart UU reporting, please use the e-GGRT Help link(s) provided.

**FACILITY INFORMATION**  
**Sources of CO<sub>2</sub> Received**  
 CO<sub>2</sub> production wells, Electric generating unit [OPEN](#)

**FLOW METERS AND CONTAINERS**

Unit Name/Identifier	Type	Measurement Basis	CO <sub>2</sub> (metric tons)	Status <sup>1</sup>	Delete
None entered					

[ADD a Flow Meter or Container](#)

[Facility Overview](#)

<sup>1</sup>A status of "incomplete" means that one or more required data elements are incomplete. For details, refer to the Data Completeness validation messages in your Validation Report by clicking the "View Validation" link above (Note: if there are no validation messages for this subpart you will not see this link).

## Subpart UU Flow Meter or Container Information



## e-GGRT Sandbox Disclaimer

All aspects of the e-GGRT Sandbox are provided for testing and familiarization purposes only. The e-GGRT sandbox system and the resources supporting this system (i.e., help content, reporting forms, calculation spreadsheets, etc.) are preliminary, subject to change and, in most cases, will not be used for actual reporting in their current state. Data in the sandbox system is NOT considered confidential and will not be protected as confidential. Data entered into the sandbox environment will not be accessible to the user once the sandbox period closes and will not be held over for official reporting. All submitted information may be monitored, recorded, read, copied, and disclosed by and to authorized personnel.

To register to participate in or access the e-GGRT sandbox preview, go to <http://sandbox.ccdsupport.com>. If have questions regarding the e-GGRT sandbox please contact the [GHGRP Help Desk](#)

This page provides step-by-step instructions on how to enter and edit Subpart UU Injection of Carbon Dioxide flow meter or container information.

Use this page to uniquely identify each receiving flow meter or container.

### Step 1: Add a unit

Select ADD a Flow Meter or Container

*Click image to expand*

**Subpart UU: Injection of Carbon Dioxide (2011)**  
Subpart Overview

**OVERVIEW OF SUBPART UU REPORTING REQUIREMENTS**  
The injection of Carbon Dioxide (CO<sub>2</sub>) source category comprises any well or group of wells that inject a CO<sub>2</sub> stream into the subsurface. If you report under subpart RR (Geological Sequestration of Carbon Dioxide (CO<sub>2</sub>)) for a well or group of wells, you are not required to report under subpart UU for that well or group of wells. A facility that is subject to 40 CFR 98 only because it is subject to subpart UU is not required to report emissions under subpart C or any other subpart listed in 40 CFR 98.2(a)(1) or (a)(2).

For additional information about Subpart UU reporting, please use the e-GGRT Help link(s) provided.

**FACILITY INFORMATION**  
Sources of CO<sub>2</sub> Received  
CO<sub>2</sub> production wells, Electric generating unit OPEN

**FLOW METERS AND CONTAINERS**

Unit Name/Identifier	Type	Measurement Basis	CO <sub>2</sub> (metric tons)	Status*	Delete
None entered					

[ADD a Flow Meter or Container](#)

[Facility Overview](#)

\*A status of "Incomplete" means that one or more required data elements are incomplete. For details, refer to the Data Completeness validation messages in your Validation Report by clicking the "View Validation" link above (Note: if there are no validation messages for this subpart you will not see this link).

### Step 2: Enter unit information

Enter the unit name, unit description (optional), and select the unit type from the drop down menu

*Click image to expand*

**Subpart UU: Injection of Carbon Dioxide (2011)**  
Subpart Overview [Add a Flow Meter or Container](#)

**FLOW METER OR CONTAINER**  
Use this page to uniquely identify each receiving flow meter or container. For additional information about adding and editing subpart UU flow meters and containers, please use the e-GGRT Help link(s) provided. \* denotes a required field

**UNIT INFORMATION**

Name or ID\*  (40 characters maximum)

Description (optional)

Type\*

**MEASUREMENT TYPE**  
Specify measurement type  
☐ Mass basis  
☐ Volumetric basis

Indicate whether the flow meter or container is volumetric or mass-based

Click image to expand

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

HOME | FACILITY REGISTRATION | FACILITY MANAGEMENT | DATA REPORTING

Help, Mail Me | My Profile | Logout

**Subpart UU: Injection of Carbon Dioxide (2011)**

**FLOW METER OR CONTAINER**

Use this page to uniquely identify each receiving flow meter or container. For additional information about adding and editing subpart UU flow meters and containers, please use the e-GGRT Help link(s) provided.

**UNIT INFORMATION**

Name or ID \* FM1 (40 characters maximum)

Description (optional)

Type \* Flow Meter

**MEASUREMENT TYPE**

Specify measurement \* ☒ Mass basis  
☐ Volumetric basis

**CANCEL SAVE**

Paperwork Reduction Act Burden Statement | Contact Us | e-GGRT RV2011-T2.R.18 | UU-unit-mgmt

Select 'SAVE'. e-GGRT returns to the subpart UU Overview screen

Click image to expand

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

HOME | FACILITY REGISTRATION | FACILITY MANAGEMENT | DATA REPORTING

Help, Mail Me | My Profile | Logout

**Subpart UU: Injection of Carbon Dioxide (2011)**

**OVERVIEW OF SUBPART UU REPORTING REQUIREMENTS**

The Injection of Carbon Dioxide (CO<sub>2</sub>) source category comprises any well or group of wells that inject a CO<sub>2</sub> stream into the subsurface. If you report under subpart RR (Geological Sequestration of Carbon Dioxide (CO<sub>2</sub>)) for a well or group of wells, you are not required to report under subpart UU for that well or group of wells. A facility that is subject to 40 CFR 98 only because it is subject to subpart UU is not required to report emissions under subpart C or any other subpart listed in 40 CFR 98.2(a)(1) or (a)(2).

For additional information about Subpart UU reporting, please use the e-GGRT Help link(s) provided.

**Net annual mass of CO<sub>2</sub> received (metric tons)** 0.0

**Subpart UU: No Validation Messages**

**FACILITY INFORMATION**

Sources of CO<sub>2</sub> Received  
CO<sub>2</sub> production wells, Electric generating unit **OPEN**

**FLOW METERS AND CONTAINERS**

Unit Name/Identifier	Type	Measurement Basis	CO <sub>2</sub> (metric tons)	Status*	Delete
FM 1	Flow Meter	Mass		Incomplete	<b>OPEN</b> ✖

**ADD a Flow Meter or Container**

**Facility Overview**

\*A status of "Incomplete" means that one or more required data elements are incomplete. For details, refer to the Data Completeness validation messages in your Validation Report by clicking the "View Validation" link above (Note: if there are no validation messages for this subpart you will not see this link).

Paperwork Reduction Act Burden Statement | Contact Us | e-GGRT RV2011-T2.R.18 | UU-overview

Repeat steps 1 and 2 to enter a container

Click image to expand

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

HOME | FACILITY REGISTRATION | FACILITY MANAGEMENT | DATA REPORTING

Help, Mail Me | My Profile | Logout

**Subpart UU: Injection of Carbon Dioxide (2011)**

**OVERVIEW OF SUBPART UU REPORTING REQUIREMENTS**

The Injection of Carbon Dioxide (CO<sub>2</sub>) source category comprises any well or group of wells that inject a CO<sub>2</sub> stream into the subsurface. If you report under subpart RR (Geological Sequestration of Carbon Dioxide (CO<sub>2</sub>)) for a well or group of wells, you are not required to report under subpart UU for that well or group of wells. A facility that is subject to 40 CFR 98 only because it is subject to subpart UU is not required to report emissions under subpart C or any other subpart listed in 40 CFR 98.2(a)(1) or (a)(2).

For additional information about Subpart UU reporting, please use the e-GGRT Help link(s) provided.

**Net annual mass of CO<sub>2</sub> received (metric tons)** 0.0

**Subpart UU: No Validation Messages**

**FACILITY INFORMATION**

Sources of CO<sub>2</sub> Received  
CO<sub>2</sub> production wells, Electric generating unit **OPEN**

**FLOW METERS AND CONTAINERS**

Unit Name/Identifier	Type	Measurement Basis	CO <sub>2</sub> (metric tons)	Status*	Delete
Container 1	Container	Mass		Incomplete	<b>OPEN</b> ✖
FM 1	Flow Meter	Mass		Incomplete	<b>OPEN</b> ✖

**ADD a Flow Meter or Container**

**Facility Overview**

\*A status of "Incomplete" means that one or more required data elements are incomplete. For details, refer to the Data Completeness validation messages in your Validation Report by clicking the "View Validation" link above (Note: if there are no validation messages for this subpart you will not see this link).

Paperwork Reduction Act Burden Statement | Contact Us | e-GGRT RV2011-T2.R.18 | UU-overview

## Subpart UU Validation Report



### e-GGRT Sandbox Disclaimer

All aspects of the e-GGRT Sandbox are provided for testing and familiarization purposes only. The e-GGRT sandbox system and the resources supporting this system (i.e., help content, reporting forms, calculation spreadsheets, etc.) are preliminary, subject to change and, in most cases, will not be used for actual reporting in their current state. Data in the sandbox system is NOT considered confidential and will not be protected as confidential. Data entered into the sandbox environment will not be accessible to the user once the sandbox period closes and will not be held over for official reporting. All submitted information may be monitored, recorded, read, copied, and disclosed by and to authorized personnel.

To register to participate in or access the e-GGRT sandbox preview, go to <http://sandbox.ccdsupport.com>. If have questions regarding the e-GGRT sandbox please contact the [GHGRP Help Desk](#)

You can use the Validation Report to assist with the completeness and quality of your reporting data.

You should use the Validation Report to check your work. The Validation Report performs three types of checks:



- Data Completeness: Data that are required for reporting are missing or incomplete.
- Data Quality: Data are outside of the expected range of values.
- Screen Errors: Critical errors which prevent the acceptance of the reported data. Typically these will appear on the upload page.

You may view the Validation Report at any time.

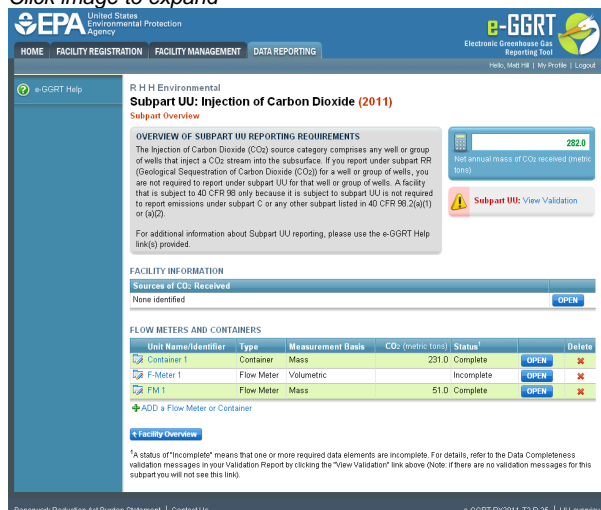


Note that the Validation Report is intended to assist users in entering data, but it is not an indication that the reporter has entered all necessary information, nor is it an indication that the reporter is in compliance with part 98. Furthermore a negative finding on the validation report is not a guarantee that a data element was entered incorrectly.

The validation notification tile, located near the top-right of the Subpart Overview page for each subpart, indicates whether validation errors are detected by e-GGRT for the active subpart.

Validation Notification Tile	Indicated Status
 <b>Subpart G: No Validation Messages</b>	e-GGRT detects no validation errors
 <b>Subpart G: View Validation</b>	e-GGRT detects missing or invalid data that should be reviewed by the user, and as appropriate, addressed

Click image to expand



**EPA** United States Environmental Protection Agency

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

HOME | FACILITY REGISTRATION | FACILITY MANAGEMENT | DATA REPORTING

Help | My Profile | Logout

**Subpart UU: Injection of Carbon Dioxide (2011)**

**OVERVIEW OF SUBPART UU REPORTING REQUIREMENTS**

The Injection of Carbon Dioxide (CO<sub>2</sub>) source category comprises any well or group of wells that inject a CO<sub>2</sub> stream into the subsurface. If you report under subpart RR (Geological Sequestration of Carbon Dioxide (CO<sub>2</sub>)) for a well or group of wells, you are not required to report under subpart UU for that well or group of wells. A facility that is subject to 40 CFR 98 only because it is subject to subpart UU is not required to report emissions under subpart G or any other subpart listed in 40 CFR 98.2(a)(1) or (a)(2).

For additional information about Subpart UU reporting, please use the e-GGRT Help link(s) provided.

**FACILITY INFORMATION**

Source of CO<sub>2</sub> Received

None identified [OPEN](#)

**FLOW METERS AND CONTAINERS**

Unit Name/Identifier	Type	Measurement Basis	CO <sub>2</sub> (metric tons)	Status <sup>a</sup>	Actions
Container 1	Container	Mass	231.0	Complete	<a href="#">OPEN</a> <a href="#">Delete</a>
F-Meter 1	Flow Meter	Volumetric		Incomplete	<a href="#">OPEN</a> <a href="#">Delete</a>
F-M 1	Flow Meter	Mass	51.0	Complete	<a href="#">OPEN</a> <a href="#">Delete</a>

[Add a Flow Meter or Container](#)

**Facility Overview**

<sup>a</sup>A status of "Incomplete" means that one or more required data elements are incomplete. For details, refer to the Data Completeness validation messages in your Validation Report by clicking the "View Validation" link above. (Note: if there are no validation messages for this subpart you will not see this link.)

Paperwork Reduction Act/Burden Statement | Contact Us

e-GGRT RY2011-T2 R.25 | UU-overview

To open the **Subpart Validation Report**, from the Subpart Overview page, click the link near the top-right of the screen titled "Subpart: View Validation".

An example of a validation report typical of validation for all reporting forms is presented below. Please note that each validation report include four columns: Validation Type, ID, Details, and Message.

- **Validation Type:** Identifies the type of validation warning including data completeness, data quality, or screen errors as described on the screen snap below. Please note that Screen Errors only appear on the validation report for XML Upload users because, for reporting form users, screen errors prevent reporting form upload and must be correct prior to a successful upload of the reporting form.
- **Validation ID:** Each validation rule has a unique validation id or number. Please note that a single validation ID may be reported for multiple items or rows within your reporting form and includes a letter prefix which corresponds to the subpart.
- **Validation Details:** Identifies the specific item, row, or data element which is generating a validation issue. This columns use varies by subpart but in general it identifies the page or table name as the ID Type, and the specific field or column in which the issue occurred as Data Object Type, the specific data element or table row in which the issue occurred as ID Value. The name of the reporting form file in which the error occurred may also be presented for those subparts or facilities which have uploaded of multiple reporting forms.
- **Validation Message:** Describes the nature of the error or validation issue.

To correct a validation issue, you must correct your reporting form on your local computer and re-upload a corrected version of the reporting form.

*Click image to expand*

**EPA** United States Environmental Protection Agency

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

HOME | FACILITY REGISTRATION | FACILITY MANAGEMENT | DATA REPORTING

Help | Unit list | My Profile | Logout

**R H H Environmental**  
**Subpart UU: Injection of Carbon Dioxide (2011)**  
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 <sup>1</sup>	ID <sup>2</sup>	Message <sup>3</sup>
Data Completeness	UU0006	Sources of CO2 Received: This data element is required.

**UNIT-LEVEL VALIDATION MESSAGES**

Validation Type	ID <sup>2</sup>	Unit Name	Message <sup>3</sup>
No unit-level validation messages.			

[Subpart Overview](#)

<sup>1</sup> Validation Types: e-GGRT generates a variety of validation types, defined below:

- **Data Completeness:** data required for reporting is missing or incomplete.
- **Data Quality:** data is outside of the range of expected values. The value you have provided is outside the EPA estimated range for this data element. Please double check this value and revise, if necessary. If you believe it to be correct, please submit the value as is.
- **Screen Error:** a data value or combination of data values prevents e-GGRT from continuing to the next page. Typically, this will not appear on the Validation Report, but instead will be displayed on the data entry page at the time the error was created.

<sup>2</sup> ID: Each validation message has a unique identifier. If you contact the e-GGRT Help Desk with a question about a validation message, please include this unique identifier with your request.

<sup>3</sup> The absence of a validation message does not indicate that the information provided is without error.

Paperwork Reduction Act Burden Statement | Contact Us

e-GGRT RV2011-T2.R.25 | UU-warnings

Each validation message has a unique identifier. If you contact the e-GGRT Help Desk with a question about a validation message, please include this unique identifier with your request.

You may view a Print-friendly version of this report by clicking on the link titled Print-friendly version, located on the right side of the Validation Report.

**See also**

**Screen Errors**