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# Subpart UU - Injection of Carbon Dioxide

 A printer-friendly version (pdf) (16 pp, 1.94MB) of GHG reporting instructions for this subpart

Please select a help topic from the list below:

- Using e-GGRT to Prepare Your Subpart UU Report
  - Subpart UU Annual Mass of CO<sub>2</sub> Received Information
  - Subpart UU Facility Information
  - Subpart UU Flow Meters and Containers
  - 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

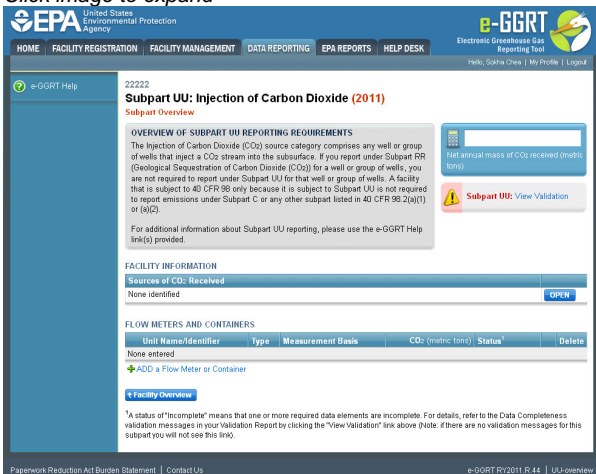
This page provides an overview of topics that are central to Subpart UU reporting. This information will be entered starting from the e-GGRT Subpart UU Overview web form shown below. Each topic represents a key web form where you need to enter information:

- Subpart UU Facility Information
- Subpart UU Flow Meters and Containers
- Subpart UU Annual Mass of CO<sub>2</sub> Received Information
- Subpart UU Validation Report

If you previously reported for Reporting Year (RY) 2011, the Agency has carried some of your RY2011 data forward and entered it in your RY2012 forms to reduce the reporting burden. It is still your responsibility to review and ensure that all of the information in your submission is correct, but the Agency believes that most of the data which is carried forward is unlikely to change significantly from year to year. For more information about carry forward data, please see the [Carry forward of data from previous submissions into RY2012 forms help content](#).

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 (Geologic 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).

Click image to expand



The screenshot shows the EPA e-GGRT reporting interface for Subpart UU: Injection of Carbon Dioxide (2011). The page includes a navigation menu with options like HOME, FACILITY REGISTRATION, and DATA REPORTING. The main content area displays the subpart overview, including an overview of reporting requirements, facility information (Sources of CO<sub>2</sub> Received), and flow meters and containers. A table for flow meters and containers is shown with columns for Unit Name/Identifier, Type, Measurement Basis, CO<sub>2</sub> (metric tons), Status, and Delete. The table currently shows 'None entered'. There is also a 'Subpart UU: View Validation' link and a 'Facility Overview' link.

## Subpart UU Facility Information

Subpart UU requires you to identify each source of the CO<sub>2</sub> received at your facility during the reporting year. You may enter "unknown" if the source is not known.

For more information and guidance on this topic please see [Subpart UU Facility Information](#).

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## Subpart UU Flow Meters and Containers

For each receiving flow meter or container at your facility, Subpart UU requires you to report the following information:

- A unique name or identifier, plus an optional description for the flow meter or container (see also [About Unique Unit Names](#)).
- Type of unit (flow meter or container)
- An indication whether the flow meter or container measurement type is volumetric or mass-based

For more information and guidance on this topic please see [Subpart UU Flow Meters and Containers](#)

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

For each receiving flow meter or container at your facility, Subpart UU requires you to report basic information about:

1. The flow through the receiving flow meter or container in each quarter
2. The flow through the receiving flow meter or container that is redelivered to another facility without being injected into your well in each quarter
3. The CO<sub>2</sub> concentration in the flow or in the container in each quarter

For more information and guidance on this topic please see [Subpart UU Annual Mass of CO<sub>2</sub> Received Information](#)

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## 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.

For more information and guidance on this topic please see [Subpart UU Validation Report](#)

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

For each receiving flow meter or container at your facility, Subpart UU requires you to report basic information about:

1. The flow through the receiving flow meter or container in each quarter
2. The flow through the receiving flow meter or container that is redelivered to another facility without being injected into your well in each quarter
3. The CO<sub>2</sub> concentration in the flow or in the container in each quarter

The screen you will be taken to depends on whether you chose the measurement type for that flow meter or container to be mass or volumetric.

- [Instructions for entering data for mass flow meters](#)
- [Instructions for entering data for volumetric flow meters](#)

Please note, the content on these pages provides detailed instructions for entering information on CO<sub>2</sub> that is received by mass or volumetric flow meters. Data entry for the CO<sub>2</sub> received in containers is similar to the data entry for the CO<sub>2</sub> received through flow meters and is not described

here.

## To Enter Quarterly Mass Received Information Begin by selecting 'NEXT'

Click image to expand

The screenshot shows the EPA e-GGRT interface for Subpart UU: Injection of Carbon Dioxide (2011). The main content area contains the following elements:

- NET ANNUAL MASS OF CO<sub>2</sub> RECEIVED**: Instructions for calculating 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**:
$$CO_{2T} = \sum_{p=1}^4 (Q_{t,p} - S_{t,p}) \times C_{CO_2p}$$

Hover over an element in the equation above to reveal a definition of that element.
- Data Table**: A table with columns for Quarter, Q (metric tons), S (metric tons), C (wt. %CO<sub>2</sub>), and Result. The table is currently empty and marked as 'Incomplete'.
- Report which CO<sub>2</sub> result?**: Radio buttons for 'Use the calculated result rounded' (selected) and 'Enter my own result (value will be rounded)'.
- Buttons**: FINISHED, CANCEL, and NEXT+ (highlighted with a red arrow).

## Entering Quarterly Mass Received Information

Subpart UU requires you to report the following data:

- The flow through the receiving mass flow meter in each quarter
- The standard or method used to calculate the flow through the receiving mass flow meter in each quarter from the following options:
  - ASME MFC 11M-2006
  - ISO 14511-2001
  - Sales contract, invoices, or manifests
  - Other (specify)
- The number of times of days in the quarter for which substitute data procedures were used to calculate the flow through the receiving mass flow meter in each quarter.
- If the mass flow of CO<sub>2</sub> received was zero for one or more quarters during the reporting year, enter "0" for the mass flow received for the quarter. The standard or method used and the number of days substitute data were used do not have to be reported if the mass flow received for the quarter is zero.

Click image to expand

**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 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

Page: 1 of 1 | EPA | e-GGRT | Help | My Profile | Logout

## Entering Quarterly Mass Received That Is Redelivered Information

Subpart UU requires you to report the following data:

- The mass flow through the receiving flow meter that is redelivered to another facility without being injected into your wells in each quarter.
- The 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 each quarter from the following options:
  - ASME MFC 11M-2006
  - ISO 14511.2001
  - Sales contract, invoices, or manifests
  - Other (specify)
- The number of days in the quarter for which substitute data procedures were used to calculate the flow through the receiving mass flow meter that is redelivered to another facility without being injected into your well in each quarter.
- If the mass flow of CO<sub>2</sub> redelivered was zero for one or more quarters during the reporting year, enter "0" for the mass flow redelivered for the quarter. The standard or method used and the number of days substitute data were used do not have to be reported if the mass flow redelivered for the quarter is zero.

*Click image to expand*

## Entering Quarterly Carbon Dioxide Concentration

Subpart UU requires you to report the following data:

- The CO<sub>2</sub> concentration in the flow in each quarter for each mass flow meter, reported in decimal form between 0 and 1.
- The standard or method used to calculate the concentration in each quarter from the following options:
  - ASTM E1747 -95 (2005)
  - ASTM D1945-03 (2010)
  - ASTM D1946 -90
  - GPA 2261
  - GPA 2177-03
  - Sales contract
  - Other (specify)
- If missing data procedures were used to estimate CO<sub>2</sub> concentration for the quarter.

*Click image to expand*

**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:  **Pull Down Menu**

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

[FINISH](#) [SUMMARY](#)

To Enter Quarterly Volume Received Information Begin by selecting 'NEXT'

Click image to expand

**NET ANNUAL MASS OF CO<sub>2</sub> RECEIVED**

For a volumetric 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 volumetric flow at standard conditions by the CO<sub>2</sub> concentration in the flow and the density of CO<sub>2</sub> at standard conditions, according to Equation UU-2.

**Equation Summary (UU-2)**

- Q: Quarterly Volume Received
- S: Quarterly Volume Redelivered
- C: Quarterly CO<sub>2</sub> Concentration
- D: Density of CO<sub>2</sub> at Standard Conditions

**EQUATION UU-2 SUMMARY AND RESULT**

$$CO_{2T} = \sum_{p=1}^4 (Q_{p,r} - S_{p,r}) \times D \times C_{CO_{2p,r}}$$

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

Quarter	Q (standard cubic meters)	S (standard cubic meters)	C (wt. %CO <sub>2</sub> )	D (metric tons per cc)	Result
1					0.0018704
2					0.0018704
3					0.0018704
4					0.0018704

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](#)

## Entering Quarterly Volume Received Information

Subpart UU requires you to report the following data:

- The flow through the receiving volumetric flow meter in each quarter
- The standard or method used to calculate the flow through the receiving volumetric flow meter in each quarter from the following options:
  - AGA Report #3
  - AGA Report #8
  - API 21.1
  - API 14.3
  - ASME MFC 12M-2006
  - ASME MFC 3M-2004

- ASME MFC 4M-1986
- ASME MFC 6M-1998
- Sales contract, invoices, or manifests
- Other (specify)
- The number of days in the quarter for which substitute data procedures were used to calculate the flow through the receiving volumetric flow meter in each quarter.
- If the flow of CO<sub>2</sub> received was zero for one or more quarters during the reporting year, enter "0" for the flow received for the quarter. The standard or method used and the number of days substitute data were used do not have to be reported if the mass flow received for the quarter is zero.

By default, e-GGRT uses a constant for the density of CO<sub>2</sub> at standard temperature and pressure (STP).

Click image to expand

The screenshot shows the e-GGRT interface for reporting quarterly volumetric flow. The subpart is 'UU: Injection of Carbon Dioxide (2011)'. The form is organized into four quarters. Each quarter section includes:

- VOLUMETRIC FLOW (QUARTER 1, JANUARY TO MARCH):** Flow: 100 (standard cubic meters); Method: API 14.3; Days: 0.
- VOLUMETRIC FLOW (QUARTER 2, APRIL TO JUNE):** Flow: 100 (standard cubic meters); Method: API 14.3; Days: 0.
- VOLUMETRIC FLOW (QUARTER 3, JULY TO SEPTEMBER):** Flow: 100 (standard cubic meters); Method: API 14.3; Days: 0.
- VOLUMETRIC FLOW (QUARTER 4, OCTOBER TO DECEMBER):** Flow: 100 (standard cubic meters); Method: API 14.3; Days: 0.

Navigation buttons 'BACK' and 'NEXT' are visible at the bottom of the form.

## Entering Quarterly Volume Received That Is Redelivered Information

Subpart UU requires you to report the following data:

- The flow through the receiving volumetric flow meter that is redelivered to another facility without being injected into your wells in each quarter.
- The standard or method used to calculate the flow through the receiving volumetric flow meter that is redelivered to another facility without being injected into your well in each quarter from the following options:
  - AGA Report #3
  - AGA Report #8
  - API 21.1
  - API 14.3
  - ASME MFC 12M-2006
  - ASME MFC 3M-2004
  - ASME MFC 4M-1986
  - ASME MFC 6M-1998
  - Sales contract, invoices, or manifests
  - Other (specify)



- The number of days in the quarter for which substitute data procedures were used to calculate the flow through the receiving volumetric flow meter that is redelivered to another facility without being injected into your well in each quarter.
- If the flow of CO<sub>2</sub> redelivered was zero for one or more quarters during the reporting year, enter “0” for the mass flow redelivered for the quarter. The standard or method used and the number of days substitute data were used do not have to be reported if the flow redelivered for the quarter is zero.

Click image to expand

## Entering Quarterly Carbon Dioxide Concentration

Subpart UU requires you to report the following data:

- The CO<sub>2</sub> concentration in the flow in each quarter for each volumetric flow meter, reported in decimal form between 0 and 1.
- The standard or method used to calculate the concentration in each quarter from the following options:
  - ASTM E1747 -95 (2005)
  - ASTM D1945-03 (2010)
  - ASTM D1946 -90
  - GPA 2261
  - GPA 2177-03

- Sales contract
- Other (specify)
- If missing data procedures were used to estimate CO<sub>2</sub> concentration for the quarter.

Click image to expand

Select 'SUMMARY' to view a summary of the entered quarterly information. The screen shot for CO<sub>2</sub> received by mass flow meter is shown here.

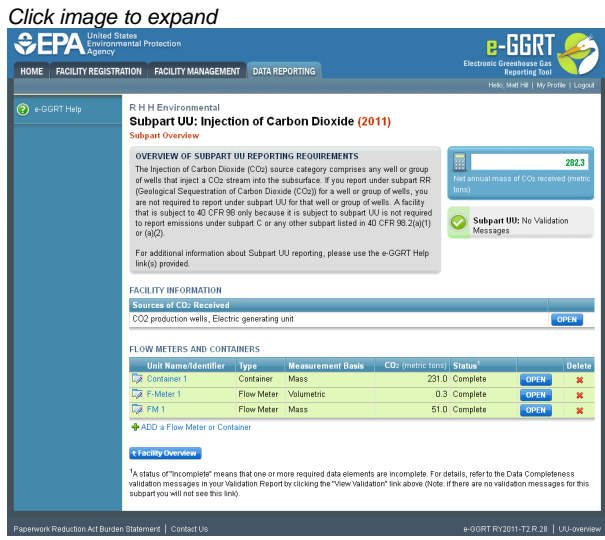
Select "Use the calculated result rounded" to report the amount of CO<sub>2</sub> as calculated by e-GGRT from the data entered into e-GGRT or "Enter my own result (value will be rounded)" to report the amount of CO<sub>2</sub> as calculated by you and not automatically calculated by e-GGRT.

Click image to expand

Quarter	Q (standard cubic meters)	S (standard cubic meters)	C (vol. %CO <sub>2</sub> )	D (metric tons per scm)	Result
1	100	25	0.42	0.0018704	0.0589176
2	100	25	0.62	0.0018704	0.0669736
3	100	25	0.41	0.0018704	0.0575148
4	100	25	0.47	0.0018704	0.0659316
					0.2693376

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

From this page, check to make sure the status of all meters and containers is "complete". If not, open the "incomplete" flow meter or container and fill out the missing information.

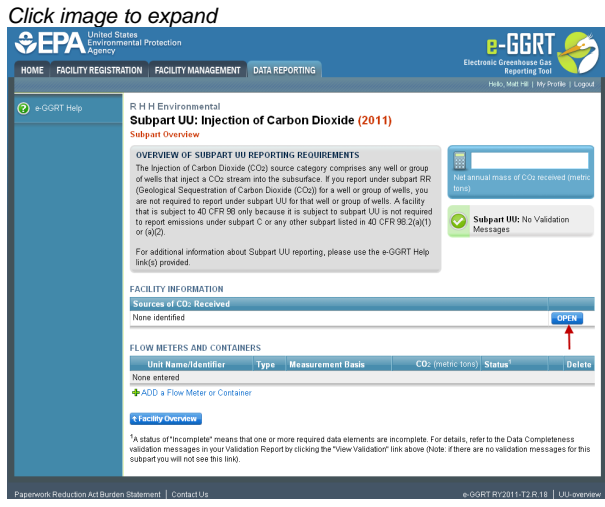


## Subpart UU Facility Information

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

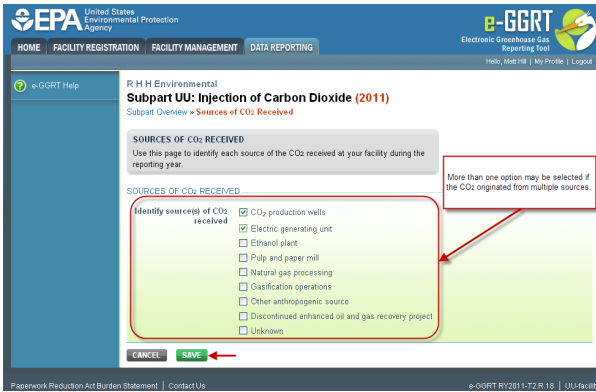
### Adding or Updating Sources of CO<sub>2</sub> Received for this facility

To add or update sources of CO<sub>2</sub> received, locate the FACILITY INFORMATION table on the Subpart UU Overview page and click OPEN.



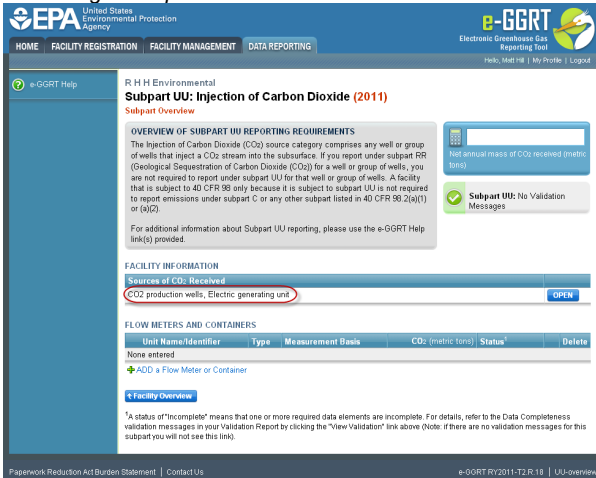
Select the source(s) of CO<sub>2</sub> received from the options listed. More than one option may be selected if the CO<sub>2</sub> originated from multiple sources. If the source of the CO<sub>2</sub> is not known, "unknown" should be selected.

Click image to expand



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

Click image to expand



## Subpart UU Flow Meters and Containers

This page provides step-by-step instructions on how to enter and update Subpart UU flow meter or container information. Use this page to uniquely identify each receiving flow meter or container.

For each receiving flow meter or container at your facility, Subpart UU requires you to report the following information:

- A unique name or identifier, plus an optional description for the flow meter or container (see also [About Unique Unit Names](#)).
- Type of unit (flow meter or container)
- An indication whether the flow meter or container measurement type is volumetric or mass-based

### Step 1: Add a unit

Click on 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 (4)(C).

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					
<a href="#">Add a Flow Meter or Container</a>					

[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 (flow meter or container) from the drop down menu. Each flow meter and each container in which CO<sub>2</sub> was received must be entered separately with a unique unit name/identifier.

*Click image to expand*

**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\*  (dropdown menu)

**MEASUREMENT TYPE**

Specify measurement type  
 Mass basis  
 Volumetric basis

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

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

*Click image to expand*

**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\*  (dropdown menu)

**MEASUREMENT TYPE**

Specify measurement type  
 Mass basis  
 Volumetric basis

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

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

*Click image to expand*

Repeat steps 1 and 2 to enter additional flow meters or containers. From the subpart UU overview page, you can continue to add flow meters or containers, or start adding information for specific flow meters or containers. The status of the flow meter or container will be incomplete until this data is completely entered.

To enter CO<sub>2</sub> received data, select “open” to the right of the flow meter or container name in the FLOW METERS AND CONTAINERS table.

Click image to expand

## 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.

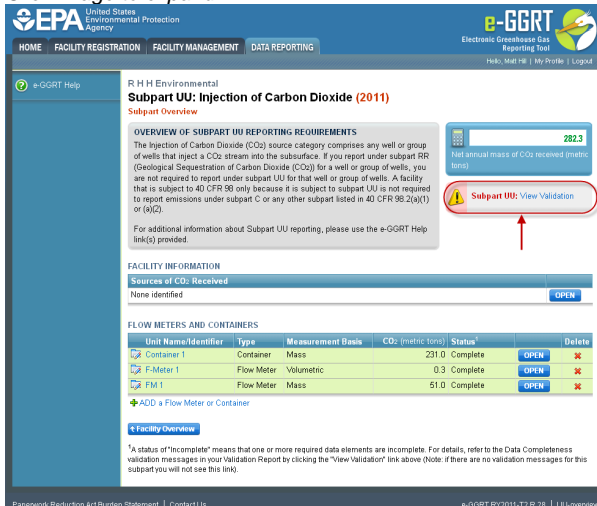
The validation notification tile, located near the top-right of the Subpart Overview page for each subpart, indicates whether validation errors are detected by e-GGRT for the active subpart.

Validation Notification Tile	Indicated Status
------------------------------	------------------

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

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".

Click image to expand



The screenshot shows the EPA e-GGRT interface for Subpart UU: Injection of Carbon Dioxide (2011). The page is titled "R H H Environmental" and "Subpart UU: Injection of Carbon Dioxide (2011)". It features a navigation bar with "HOME", "FACILITY REGISTRATION", "FACILITY MANAGEMENT", and "DATA REPORTING". The main content area includes an "Overview" section with a "Subpart Overview" link, a "Facility Information" section with a "Sources of CO<sub>2</sub> Received" table, and a "Flow Meters and Containers" table. A red box highlights a "Subpart UU: View Validation" link with a warning icon. The "Flow Meters and Containers" table has the following data:

Unit Name/Identifier	Type	Measurement Basis	CO <sub>2</sub> (metric tons)	Status	Details	Delete
Container 1	Container	Mass	231.0	Complete	OPEN	X
F-Meter 1	Flow Meter	Volumetric	0.3	Complete	OPEN	X
FM 1	Flow Meter	Mass	51.0	Complete	OPEN	X

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-generate, certify and submit a corrected version of the reporting form.

Click image to expand

United States Environmental Protection Agency

e-GGRT Electronic Greenhouse Gas Reporting Tool

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e-GGRT Help

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 the 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 <sup>1</sup>	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 values 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.

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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**