

Greenhouse Gas Reporting Program



Subpart RR: Geologic Sequestration of Carbon Dioxide



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For a copy of these slides, visit:

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

Outline



- Overview and Schedule
- Electronic Greenhouse Gas Reporting Tool (e-GGRT)
- Summary of Subpart RR requirements
 - Applicability
 - Submissions due prior to annual reporting

Overview of Subparts RR and UU



- EPA has finalized greenhouse gas (GHG) reporting mechanisms for facilities that conduct geologic sequestration (subpart RR) and all other facilities that inject carbon dioxide (CO₂) underground for enhanced oil and gas recovery or any other purpose (subpart UU).
 - Proposal signed on March 22, 2010.
 - Final rule signed on November 22, 2010.
- This rule is complementary to and builds on EPA's Underground Injection Control (UIC) permit requirements
- On November 9, 2011 EPA finalized Technical Corrections, Clarifying and Other Amendments to seven subparts, including RR and UU.

Geologic Sequestration of Carbon Dioxide (Subpart RR)



- Facilities that conduct geologic sequestration by injecting CO₂ for long-term containment in subsurface geologic formations are required to:
 - Report basic information on CO₂ received for injection.
 - Develop and implement an EPA-approved site-specific monitoring, reporting, and verification (MRV) plan.
 - Report the amount of CO₂ geologically sequestered using a mass balance approach and annual monitoring activities.
- All facilities that hold a UIC Class VI permit must report under Subpart RR.

Geologic Sequestration of Carbon Dioxide (Subpart RR)



- Facilities that conduct enhanced oil and gas recovery are not required to report geologic sequestration under Subpart RR unless
 1. the owner or operator chooses to opt-in to Subpart RR or,
 2. the facility holds a UIC Class VI permit for the well or group of wells used to enhance oil and gas recovery
- R&D projects will be granted an exemption from Subpart RR provided they meet the eligibility requirements

Injection of Carbon Dioxide (Subpart UU)



- Under Subpart UU, all facilities that inject CO₂ underground for purposes besides geologic sequestration, such as for enhanced oil and gas recovery or any other purpose, are required to report basic information on CO₂ received for injection.
- Geologic sequestration R&D projects that receive an exemption from Subpart RR are required to report under Subpart UU.

Subpart RR Submissions



- Registration and Certificate of Representation (COR) for each facility
- One of the following:
 - Proposed Monitoring, Reporting, and Verification (MRV) plan
 - MRV plan extension request
 - R&D project exemption request
- Annual reports (starting in 2012 for data collected in 2011)

Use e-GGRT for facility registration and submissions



Subpart RR Submissions Schedule



1. Register your facility and submit your Certificate of Representation 60 days before making a submission under Subpart RR.
2. Submit a proposed MRV plan, MRV plan submission extension request (up to 180 day extension), or R&D project exemption request through e-GGRT by the following deadlines:

Facility issued UIC permit on or before December 31, 2010

- Submit MRV plan, MRV plan extension request, or R&D project exemption request **by June 30, 2011**

Facility issued UIC permit on or after January 1, 2011

- Submit MRV plan, MRV plan extension request, or R&D project exemption request **within 180 days of receiving final UIC permit**



Electronic Greenhouse Gas Reporting Tool (e-GGRT)



For more information



On the GHG Reporting Program:

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

On the GHG Data System:

<http://www.ccdsupport.com>

Contact Us:

http://www.epa.gov/climate/climatechange/emissions/ghgrule_contactus.htm

Organization Type*

My question concerns*:

Reporting System Question

e-GGRT
(electronic GHG Reporting Tool)

Rule Related Question

40 CFR part 98
(Final rule published on 10/30/2009)

Proposed Rule
(New rules and amendments proposed in 2010)

On 'Contact Us' page select e-GGRT for data system questions

Overview



- Purpose of this portion of the webinar
- About e-GGRT
- e-GGRT user registration
- e-GGRT facility/supplier registration
- Registering Designated Representatives (DR), Alternate Designated Representatives (ADR) and Agents
- Questions & Answers

About Today's Webinar



- Today, we will explain how reporters will register in e-GGRT to submit the Certificate of Representation
- We will NOT discuss how facilities and suppliers will use e-GGRT to create and submit annual GHG reports
 - This will be discussed in future webinars
- We will not be discussing ...
 - Applicability Determinations
 - GHG emission calculations
 - Proposed rulemakings

About e-GGRT



- Web-based system
 - Will guide reporters through data entry and submission
 - Built-in calculations
- Reporters may choose to format their annual GHG report according to the e-GGRT XML schema
 - These reporters must meet the same registration and submission deadlines as all other reporters

About e-GGRT



- All data is submitted to EPA electronically in e-GGRT
 - Except the one-time Electronic Signature Agreement (ESA) which is submitted on paper
- e-GGRT supports reporting required under Part 98
 - e-GGRT does NOT support record keeping requirements under Part 98

About e-GGRT



- System Requirements
 - Internet Explorer 7+ or Firefox 3+
 - Javascript enabled in the browser
 - Transport Layer Security (TLS) enabled in the browser
 - PDF reader (e.g. Adobe Reader)
 - Access to printer (for Electronic Signature Agreement)
 - Access to the Internet
 - Personal (private) email account
- E-GGRT performs a browser test and will redirect to these pages if you fail
- E-GGRT enforces a ten-minute inactivity timeout.



Your browser does not fulfill the *e-GGRT* system's browser compatibility requirements

The following browser versions are supported

- Microsoft Internet Explorer 7.0 (or above) [Go to Download website](#)
- Mozilla Firefox 3.0 (or above) [Go to Download website](#)

Your current Browser is Microsoft Internet Explorer v6.0

[EPA Home](#) | [Privacy and Security Notice](#) | [Contact Us](#)

Your browser does not fulfill the e-GGRT system's browser compatibility requirements.

Reason: JavaScript is disabled on this browser.

Solution: You must enable JavaScript on this browser before you can use e-GGRT. Instructions for enabling JavaScript are provided below. After you have enabled JavaScript, refresh this page.

Internet Explorer (7.0 and 8.0)

1. Select 'Tools' from the top menu
2. Choose 'Internet Options'
3. Click on the 'Security' tab
4. Click on 'Custom Level'
5. Scroll down until you see section labeled 'Scripting'
6. Under 'Active Scripting', select 'Enable' and click OK

Mozilla Firefox (3+)

1. Select 'Tools' from the top menu
2. Choose 'Options'
3. Choose 'Content' from the top navigation
4. Select the checkbox next to 'Enable JavaScript' and click OK

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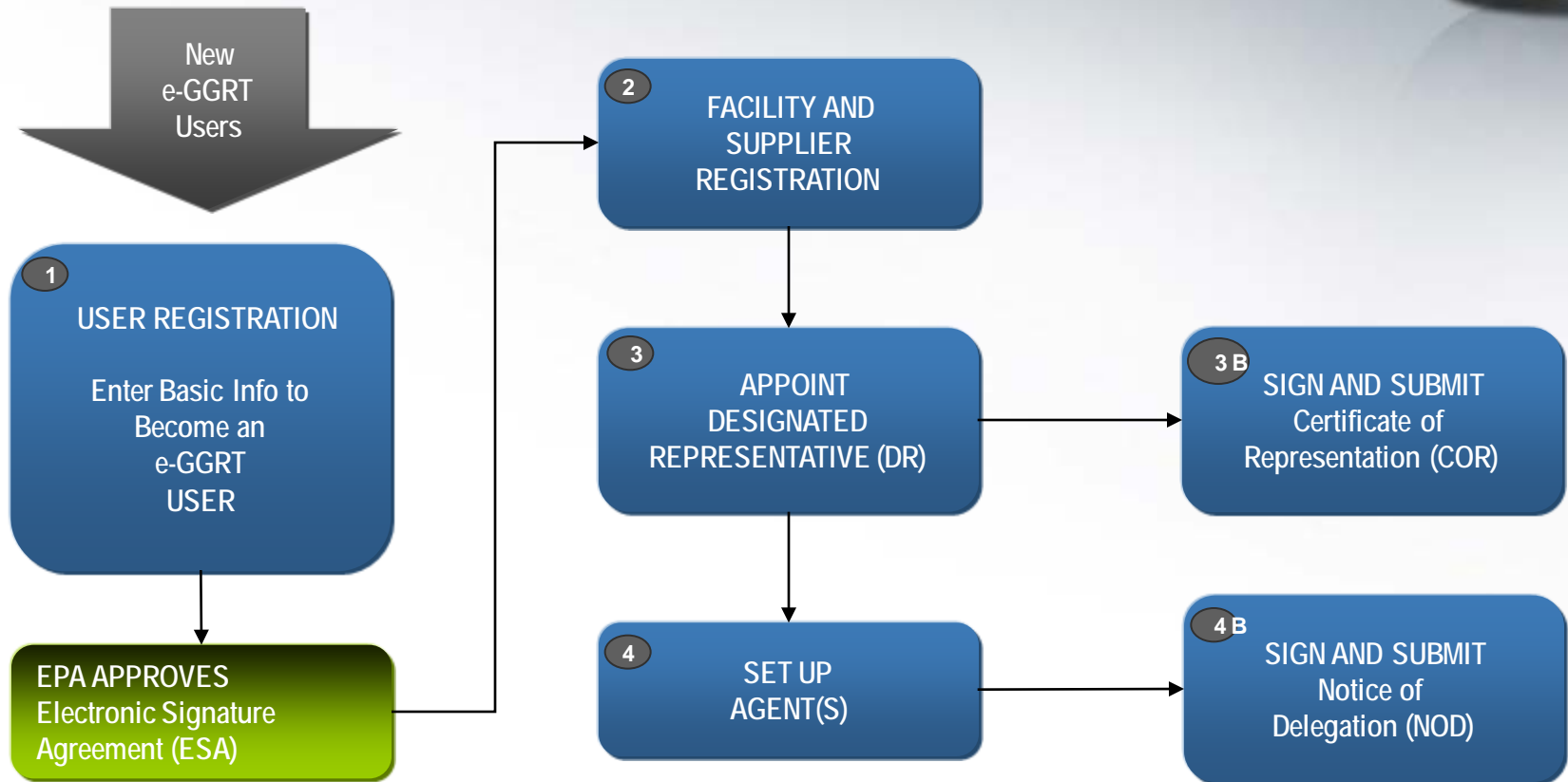
User Registration: Getting Started



- Information you will need includes:
 - Name
 - Mailing address
 - Email address
- If you are an EPA Central Data Exchange (CDX) user:
 - CDX User Name and Password
- If you are a CAMD Business System (CBS) reporter:
 - CBS User Name and Password



Registration: Overview



User Registration: Login Page



Context sensitive help on every page

As a new e-GGRT user you will start at the e-GGRT login page:
<https://ghgreporting.epa.gov>

If you have a CDX account then log in with your CDX credentials here

Otherwise, click the green NEW USER REGISTRATION button

User Registration: On-Screen Directions



On-screen directions will guide you through the user registration process.

→ Most e-GGRT pages allow you to freely navigate and come back later to complete them. New user registration, however, requires you to complete the four steps in one session.

EPA United States Environmental Protection Agency

USER REGISTRATION

? e-GGRT Help

- About e-GGRT
- Climate Change Home Page
- Applicability Tool for the Mandatory Greenhouse Gas Reporting Rule

About the e-GGRT One-time User Registration Process

SHOULD YOU REGISTER TO USE e-GGRT?

You will need to create an e-GGRT user account if you are a Facility or Supplier affected by EPA's Mandatory Greenhouse Gas Reporting Rule (MGR). If you are uncertain, the [Applicability Tool](#) can help determine if you are required to report greenhouse gas (GHG) emissions. Facilities and Suppliers are required to report emissions to EPA's e-GGRT system. Information entered into the system will be used to generate reports for EPA.

User Registration Process

1 Create User Profile	Enter identifying information (name, address, contact information); set your username, password, and a secret password reset question.
2 Pick Challenge Questions	Pick, and supply answers to, five challenge questions. You will be asked one of these questions anytime you certify and sign a submission in e-GGRT.
3 Electronic Signature Agreement	Print the Electronic Signature Agreement (ESA). Sign the form, then mail or courier to EPA. You will not be able to use e-GGRT until EPA has received and processed this paper agreement with your signature.
4 Print Summary	Print the summary of your registration for your records. If you have questions regarding your registration, including the status of your ESA, you can refer to this document.
Start Using e-GGRT	EPA will not activate your account until your ESA has been received and processed. An account activation notice will be sent to the email address you used for registration. You will then be able to use e-GGRT.

BEGIN REGISTRATION

eGGRT RY2010.6.0 | UA2-1

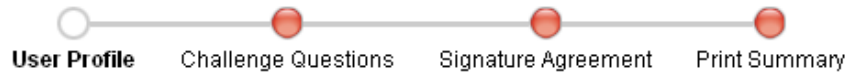
User Registration: Your User Profile



USER REGISTRATION

e-GGRT Help

Help with User Registration



YOUR USER PROFILE

By completing and saving this form you will establish your e-GGRT user profile.

NOTE: You will not be able to return to this screen, so please double check all information before you save.

Title *	Ms.
First Name *	Jane
Middle Initial	
Last Name *	Small
Suffix	Select

ADDRESS INFORMATION

Organization (Employer) *	Smalltown Carbon
Mailing Address Line 1 *	123 Main Street
Mailing Address Line 2	
City *	Smalltown

Please note the following when filling out your profile:

Profile information will be used on the Certificate of Representation (if you are a DR or ADR) or Notice of Delegation (if you are an Agent)

User Registration: On-Screen Directions



CONTACT INFORMATION

Email *	<input type="text" value="jsmall@sc.com"/>
Re-enter Email *	<input type="text" value="jsmall@sc.com"/>
Phone Number *	<input type="text" value="123-456-7890"/>
Phone Extension	<input type="text"/>
FAX	<input type="text"/>

Throughout the registration process on-screen directions and validation messages will provide help

USER NAME & PASSWORD

Your user name may not contain spaces or symbols. Do not begin your user name with a number.

User Name *

User name is required.

Your password must be at least 8 characters long and contain at least one number, but do not start with a number, Do not use spaces or symbols in your password. Your user name should not be part of your password.

Password * Password confirmation is required.

Confirm Password *

Password is required.

Your secret question and answer is used to authenticate you in situations where you have forgotten your user name or password. Please enter a secret question which has relevance to you and has an answer that is not too obvious. **Secret**

Secret Question *

Secret Answer *

Secret question is required.

The Secret Question and Answer are used if you need to reset your password. Store this information securely.

User Registration: Challenge Questions



E-GGRT will use Challenge Questions and Answers later to support Electronic Signatures so keep them stored securely.

EPA United States Environmental Protection Agency

USER REGISTRATION

e-GGRT Help
Help with User Registration

User Profile **Challenge Questions** Signature Agreement Print Summary

YOUR FIVE CHALLENGE QUESTIONS
Select and answer five different Challenge Questions. When you use e-GGRT to sign a submission, you will be prompted to correctly answer one of these questions.

CHALLENGE QUESTIONS

Question 1 * What is the first and middle name of your oldest sibling?

Answer 1 *

Question 2 * What is your favorite pet's name?

Answer 2 *

Question 3 * What is your favorite hobby?

Answer 3 *

Question 4 * What is your favorite TV show?

Answer 4 *

Question 5 * Where did you first meet your spouse?

Answer 5 *

SAVE

User Registration: Electronic Signature Agreement




EPA United States Environmental Protection Agency

USER REGISTRATION

e-GGRT Help
Help with User Registration

User Profile Challenge Questions **Signature Form** Print Summary

YOUR ELECTRONIC SIGNATURE AGREEMENT (ESA)
e-GGRT requires an Electronic Signature Agreement (ESA). You will not be able to use e-GGRT functionality until EPA receives this paper form. Please allow 10 business days for processing.

1. Print: [Your Electronic Signature Agreement Form](#) 
2. Read your form
3. **Sign and date your form**
4. Mail your form to:
e-GGRT Help Desk
SAIC
8301 Greensboro Drive, Mail Stop E-11-2
McLean, VA 22102
5. Wait for EPA to receive your form, after which you will receive an account activation notice by email and can begin using e-GGRT.

NEXT

eGGRT RY2010.6.8 | UA2-4

On this **final** page you can print out your Electronic Signature Agreement.

You can also save a copy as a PDF file.

User Registration: Electronic Signature Agreement



Electronic Signature and Use Agreement

The electronic submittal of information to the creation and maintenance of a CDX user account and use of my account.

- (1) I understand and agree that I will be held responsible for the accuracy of the information submitted and any submission I make as I would be by making a paper submission.
- (2) I agree to maintain an email account. If I do not, I agree to provide an email address and why this occurred when requested by EPA.
- (3) I agree to protect my user name and password. I will not give my user name or password to any other individual and I will not allow my password to be written into computer files.
- (4) I agree to contact the EPA as soon as possible if my user name or password has become lost, stolen, or otherwise compromised.
- (5) I agree not to attempt to view, change, delete, or otherwise use the information of any other user in an ethical and trustworthy manner and to hold the EPA harmless from any such actions.

John Metropolis
123 Industrial Way
Beverly Hills, CA
90210

e-GGRT Help Desk
8301 Greensboro
Drive
Mail Stop E-11-2
McLean, VA
22102



Name:

User name:

Organization:

Email Address:

Signature: _____

Date: _____

Please submit signed and dated agreement to:

e-GGRT Help Desk

SAIC

8301 Greensboro Drive, Mail Stop E-11-2

You MUST sign and date your ESA

Please allow time to mail your Electronic Signature Agreement to EPA



533668

User Registration: Electronic Signature Agreement Approved!



Notifications from e-GGRT will be sent to the email address in your user profile.

Make sure your email accepts mail from eggtr@ccdsupport.com

For questions about the GHG Reporting Program or e-GGRT, contact EPA at GHGMRR@epa.gov



e-GGRT: EPA has received your ESA - You can now
GHGReporting to: Peter Kokopeli
Please respond to Reply

A Notice from EPA's electronic Greenhouse Gas Reporting Tool

EPA has received your e-GGRT Electronic Signature Agreement (ESA) form.

You may now login and begin to use e-GGRT, including registering facilities or suppliers, and accepting e-GGRT invitations to be a Designated Representative or Agent.

If you believe you received this message in error, or have questions, please contact the Help Desk at
Monday through Friday during regular business hours.

20019
21220

Registering A Facility



The screenshot shows the EPA e-GGRT website. At the top left is the EPA logo and the text "United States Environmental Protection Agency". To the right is the "e-GGRT Electronic Greenhouse Gas Reporting Tool" logo and a stork icon. Below the logo is the text "Hello, K C | My Profile | Logout". The main navigation bar includes "HOME", "FACILITY REGISTRATION", and "FACILITY MANAGEMENT". A yellow callout box with a red arrow points to the "REGISTER A FACILITY" button, containing the text: "Click 'Register A Facility' from your e-GGRT Home Page". Below this is a table titled "YOUR FACILITIES:" with columns "Facility or Supplier" and "Your Role". The table contains one row: "No Registered Facility". A second yellow callout box with a red arrow points to this row, containing the text: "If you are a CBS user and have linked your CBS and e-GGRT accounts, your CBS facilities will be listed here." To the right of the table is a section titled "ACCEPT AN INVITATION:" with the text "Responding to a Facility Invitation?" and "Paste the Invitation Code into the field below, then click 'GO'". Below this is an input field and a green "GO" button. Further down is an "e-GGRT Announcements" section with the date "2010-09-01 08:00:00.0" and the text "Welcome to e-GGRT! For more information, tutorials and FAQs click the e-GGRT Help link on this page. See the GHG Reporting Program website for training opportunities." At the bottom right of the page is the text "eGGRT RY2010.6.8 | UA1-2".

Log-In to e-GGRT at: <https://ghgreporting.epa.gov>

Facility Registration



A “subway map” will show you where you are in the Facility setup process

e-GGRT will help you SEARCH through EPA’s Facility Registry System for your facility.

Facilities that have already been registered will be labeled “Claimed”

SEARCH FOR YOUR FACILITY
First, determine if your facility or supplier is already known to e-GGRT.

- **IF you find your facility:** select it to begin registration. If it is "Claimed" you will be directed to the Help Desk.
- **IF you do not find your facility:** try different search terms, or Add a New Facility.

SEARCH BY NAME AND LOCATION

Zip/Postal Code * 19512

SEARCH

SEARCH RESULTS

	Facility or Supplier Name	Address	Registration Status
<input type="radio"/>	BOYERTOWN CASKET COMPANY	25 N. WALNUT STREET BOYERTOWN, PA 19512	Available ✓
<input type="radio"/>	CABOT S	650 COUNTY LINE ROAD BOYERTOWN, PA 19512	Available ✓
<input type="radio"/>	CABOT S	COUNTY LINE RD BOYERTOWN, PA 19512	Available ✓
<input type="radio"/>	CAMPE	300 S. WASHINGTON ST. BOYERTOWN, PA 19512	Available ✓
<input type="radio"/>	COOPER INDUSTRIES	SECOND & JEFFERSON STREETS	Available ✓

Facility Registration



EPA United States Environmental Protection Agency

e-GGRT Electronic Greenhouse Gas Reporting Tool

HOME FACILITY REGISTRATION FACILITY MANAGEMENT DATA REPORTING REPORTS

ABOUT REGISTRATION FACILITY SETUP VERIFICATION ACCEPT ASSIGNMENTS Hello, Peter Kokopeli | My Profile | Logout

e-GGRT Help
Help with Facility Registration

Search **Facility Info** Appoint DR & ADR Setup Agents Confirm & Submit

FACILITY OR SUPPLIER INFORMATION
The information populated below, based upon your selection from the facility search, is from EPA's Facility Registration System (FRS). Update the information and provide Owner or Operator. denotes a required field

-ADDRESS INFORMATION-

Facility or Supplier Name* VANGUARD CORP

Street Address* 10 JAVA STREET

City* BROOKLYN

State* New York

Zip/Postal Code* 11222

-OWNERS AND OPERATORS-

Owner or Operator* Jane Doe

+ ADD Another Owner or Operator

←BACK NEXT→

List the owners and operators of the facility or supplier here. Click "ADD" to list more.

Facility Registration



Electronic Greenhouse Gas Reporting Tool

HOME FACILITY REGISTRATION FACILITY MANAGEMENT

ABOUT REGISTRATION FACILITY SETUP VERIFICATION ACCEPT ASSIGNMENTS

Hello, K C | My Profile | Logout

e-GGRT Help

Help with Facility Registration

Carbon Emitters Factory

Search Facility Info **Appoint DR & ADR** Setup Agents Confirm & Submit

WHO ARE THE DR AND ADR?

Each e-GGRT facility is required to have one, and only one, Designated Representative (DR). The DR will certify and sign the Facility or Supplier's submissions to EPA. The DR can appoint one, and only one, Alternate Designated Representative (ADR) to act on behalf of the DR.

After EPA reviews the registration, e-GGRT will send an e-mail invitation to the DR and ADR with instructions on how to accept their role for this facility.

* denotes a required field

DESIGNATED REPRESENTATIVE (DR)

Who will be the DR for this Facility or Supplier? I will be the DR I want to appoint a DR.

First Name* John

Last Name* Smith

Middle Initial

Phone* 202-123-4567

E-mail*

Re-enter E-mail* JohnSmith@CarbonHQ.com

ALTERNATE DESIGNATED REPRESENTATIVE (ADR)

Who will be the ADR for this Facility? I want to appoint an ADR, or There will be no ADR. (Note: ADRs can be appointed after registration)

First Name* Jane

Last Name* Doe

Middle Initial

Phone* 240-123-4567

E-mail* JaneDoe@CarbonHQ.com

Grey boxes in e-GGRT provide explanatory text. You may also click HELP at any time for more info.

You can appoint yourself as DR or someone else. EPA will review all appointments

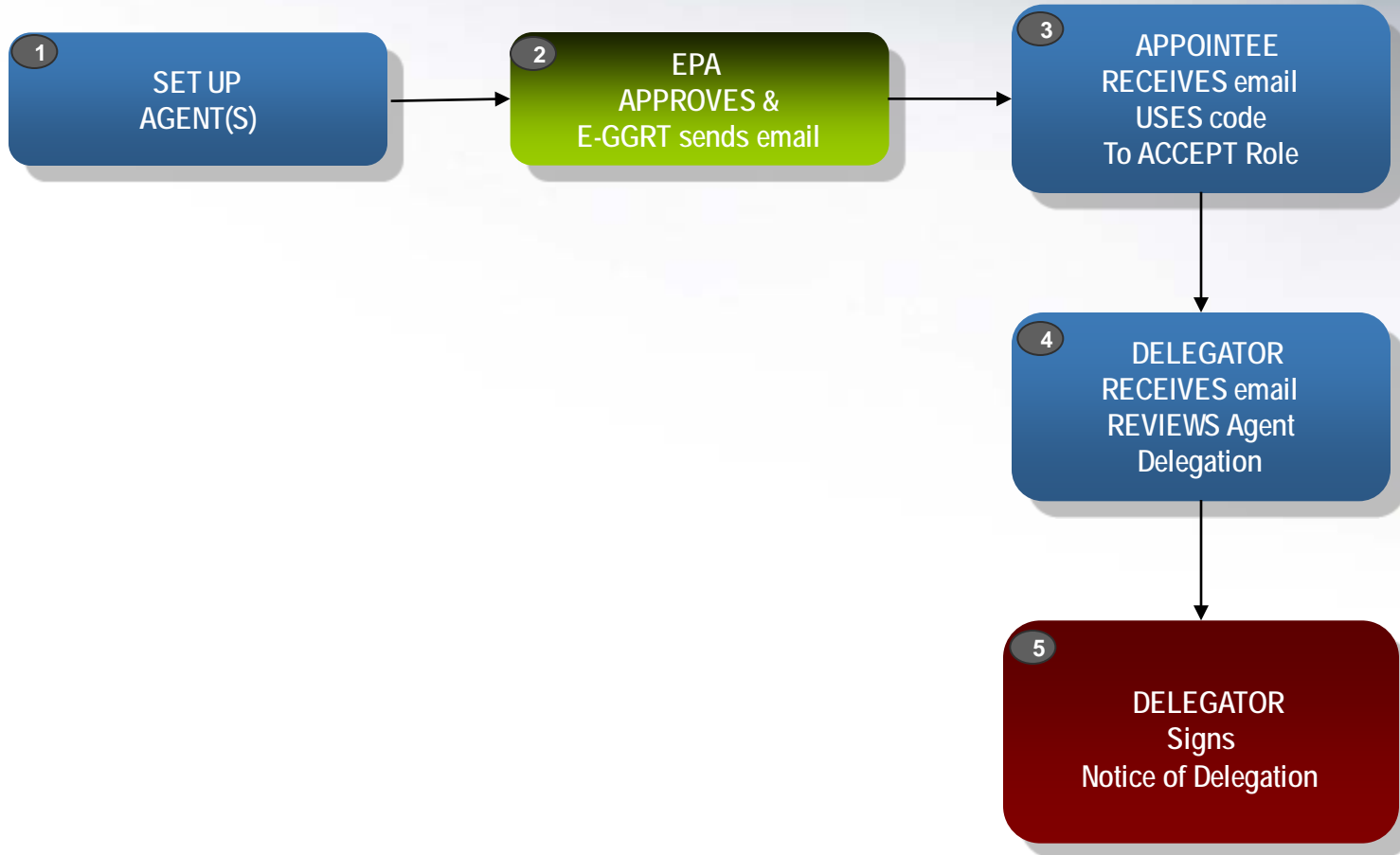
The email will be used by e-GGRT to invite the DR appointee to accept their role.

Enter the ADR's info here, if applicable. An ADR can also be added at a later time but must be approved by the DR

Appointments and Invitations: DR & ADR



Appointments and Invitations: Agent(s)



Using an Invitation Code



Home Page lists facilities and role

After an APPOINTEE receives an email invitation for a ROLE, he or she can log into e-GGRT and paste the invitation code into this box.

ACCEPT AN INVITATION:
Responding to a Facility Invitation?
Paste the Invitation Code into the field below, then click 'GO'
E94C3E807C81CEDA2B2490

Accepting the Appointment



to submit reports.

If you accept the role, you will digitally sign and submit a Certificate of Representation (COR) in the screens that follow.

denotes a required field

You have been identified by Peter Kokopeli as the **Designated Representative (DR)** for:

ANYREPORTER
123 Main Street
ANYTOWN, USA, ANYZIP

Do you accept this*
appointment? Yes
 No

If you do not accept,
please explain

Peter Kokopeli suggested the following person as your **Alternate Designated Representative** for this facility:

Uncle JOE
202-123-4567
Joe.Uncle@mail.com

Do you confirm the ADR*
appointment? Yes
 No — change the ADR appointment
(note, this option only applies when an ADR was appointed)
 No — do NOT appoint an ADR at this time

NEXT →

Certificate of Representation



e-GGRT

Facility or Supplier Name	STEVE SHOP
Address	6251 SIDE ROAD REDDING CA, 96001
Owners and Operators	Steve Trout; EDIT Facility Information

REPRESENTATIVE INFORMATION

Designated Representative	Peter Kokopeli 1200 Pennsylvania Ave, NW Washington DC, 22222 2023439085 kokopeli.peter@epa.gov
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CERTIFICATION STATEMENTS

I certify that I was selected as the designated representative or alternate designated representative, as applicable, by an agreement binding on the owners and operators of the facility or supplier, as applicable.

I certify that I have all the necessary authority to carry out my duties and responsibilities under 40 CFR part 98 on behalf of the owners and operators of the facility or supplier, as applicable, and that each such owner and operator shall be fully bound by my representations, actions, inactions, or submissions.

I certify that the owners and operators of the facility or supplier, as applicable, shall be bound by any order issued to me by the Administrator or a court regarding the facility or supplier.


If there are multiple owners and operators of the facility or supplier, as applicable, I certify that I have given a written notice of my selection as the 'designated representative' or 'alternate designated representative', as applicable, and of the agreement by which I was selected to each owner and operator of the facility or supplier.

Done


Carefully review the Certification Statements. These Certification Statements can also be found in Section 98.4 of the Rule

Facility Summary





United States
Environmental Protection
Agency



e-GGRT
Electronic Greenhouse Gas
Reporting Tool

HOME FACILITY REGISTRATION FACILITY MANAGEMENT

Hello, Elijah | My Profile | Logout

MY FACILITIES | FACILITY SUMMARY

[? e-GGRT Help](#)

[About Facility Management](#)

Subpart RR: Geologic Sequestration of Carbon Dioxide

DeMasi Carbon Services, Inc.

Facility Summary

Certificate of Representation Signed and Complete: No further action is required by the facility representatives.

E-GGRT FACILITY SUMMARY

From this summary page, depending upon your role, you can make changes to the "Facility Profile" information, the facility's representatives Designated Representative (DR) and Alternate Designated Representative (ADR), and to your Agents if you are a DR or ADR.

Facility Representatives		
Designated Representative	Anthony Valinote	CHANGE
Alternate Designated Representative	none	CHANGE

[Certificate of Representation](#)

Agent (for this facility)	for
none appointed	

[+ Add Agent](#) [X Remove selected](#)

Facility Profile

Facility Information	AJ Test Facility IV 123 Test Street Falls Church VA 22043	EDIT
Owners and Operators	AJ	


Subpart RR: Geologic Sequestration of Carbon Dioxide

Click the Subpart RR link above if your facility must submit a R&D Project Exemption Request, a Monitoring, Reporting, and Verification (MRV) Plan, or a MRV Plan Extension Request.


e-GGRT version 1.0 | FM1-2

Subpart RR Start Page





United States Environmental Protection Agency



Electronic Greenhouse Gas Reporting Tool

HOME FACILITY REGISTRATION FACILITY MANAGEMENT DATA REPORTING

MY FACILITIES FACILITY SUMMARY Hello, Elijah | My Profile | Logout

e-GGRT Help

- Link to a relevant PDF
- Resources by Subpart: Subpart RR

DeMasi Carbon Services, Inc. (2010)
Subpart RR: Geologic Sequestration of Carbon Dioxide
[Facility Summary](#) » [Subpart RR Overview](#)

OVERVIEW OF SUBPART RR

The MRR requires reporting of greenhouse gases (GHGs) from facilities that inject carbon dioxide underground for geologic sequestration (GS). If you are subject to Subpart RR deadlines for submitting a Proposed Monitoring, Reporting, and Verification (MRV) Plan (or extension request) or Research and Development (R&D) project exemption request can be found using the e-GGRT Help and information links on the left.

R&D PROJECT EXEMPTION REQUEST

Name of Project	Certified Date	Status
none		

[+ADD a R&D Project Exemption Request](#)

MRV PLAN EXTENSION REQUEST

Name of Project	Certified Date	Status
none		

[+ADD a MRV Plan Extension Request](#)

MRV PLAN

MRV Plan Submission	Certified Date	Status
none		

To submit (or resubmit) an MRV Plan, please **UPLOAD** the entire contents of your MRV Plan as a single ZIP file. After upload you must proceed to **SUBMIT** and **CERTIFY** the plan, a process that includes applying your electronic signature (entering your password and answering a challenge/security question).

e-GGRT version 1.0 | RR(overview)

e-GGRT Support



- E-GGRT Help Desk will be able to answer questions and provide support to e-GGRT users
- Telephone: **1-877-444-1188**
- Email: **GHGREPORTING@epa.gov [e-GGRT]**
GHGMRR@epa.gov [RULE]
- URLs: **www.ccdsupport.com [Help]**
<https://ghgreporting.epa.gov> [e-GGRT]

Before you Contact the e-GGRT Help Desk



- **Can I login to e-GGRT using my CAMD Business System user name and password?**
No. You can, however, use your CDX user name and password to login to e-GGRT.
- **How do I reset my CDX password?**
If you have not yet logged into e-GGRT and you need to reset your CDX password, go to <https://cdx.epa.gov/SSL/cdx/login.asp>. The "Forgot Password" link on the e-GGRT home page will not work unless you have successfully logged into e-GGRT at least once.
- **Can I reuse my CAMD Business System Electronic Signature Agreement, or do I need to mail in a new one?**
If you already have an Electronic Signature Agreement on file with the CAMD Business System, e-GGRT can reuse it if you provide your CAMD Business System user name and password when requested during user registration, and no additional Electronic Signature Agreement is needed

e-GGRT Help Site


www.ccdsupport.com



[Home](#)

Welcome to e-GGRT Help

This site contains news, tutorials, FAQs, help and other information about e-GGRT.

 e-GGRT News

Latest News

- [E-GGRT Help Desk Closed on Jan. 17](#)
- [Maintenance Scheduled Saturday Jan. 22](#)
- [EPA Releases E-GGRT Tutorials](#)
- [EPA Proposes Updates to Greenhouse Gas Reporting Program](#)
- [GHGRP Rulemaking Notices](#)
- [E-GGRT Webinars](#)

[GHG Rulemaking RSS Feed](#)

 Learn about e-GGRT Help

Additional Information



Questions?

Subpart RR Topics for Today



- **Applicability**
 - Who is subject to Subpart RR?
- **Submission due prior to annual reporting**
 - R&D Project Exemption Request *OR*
 - Proposed Monitoring, Reporting, and Verification (MRV) Plan

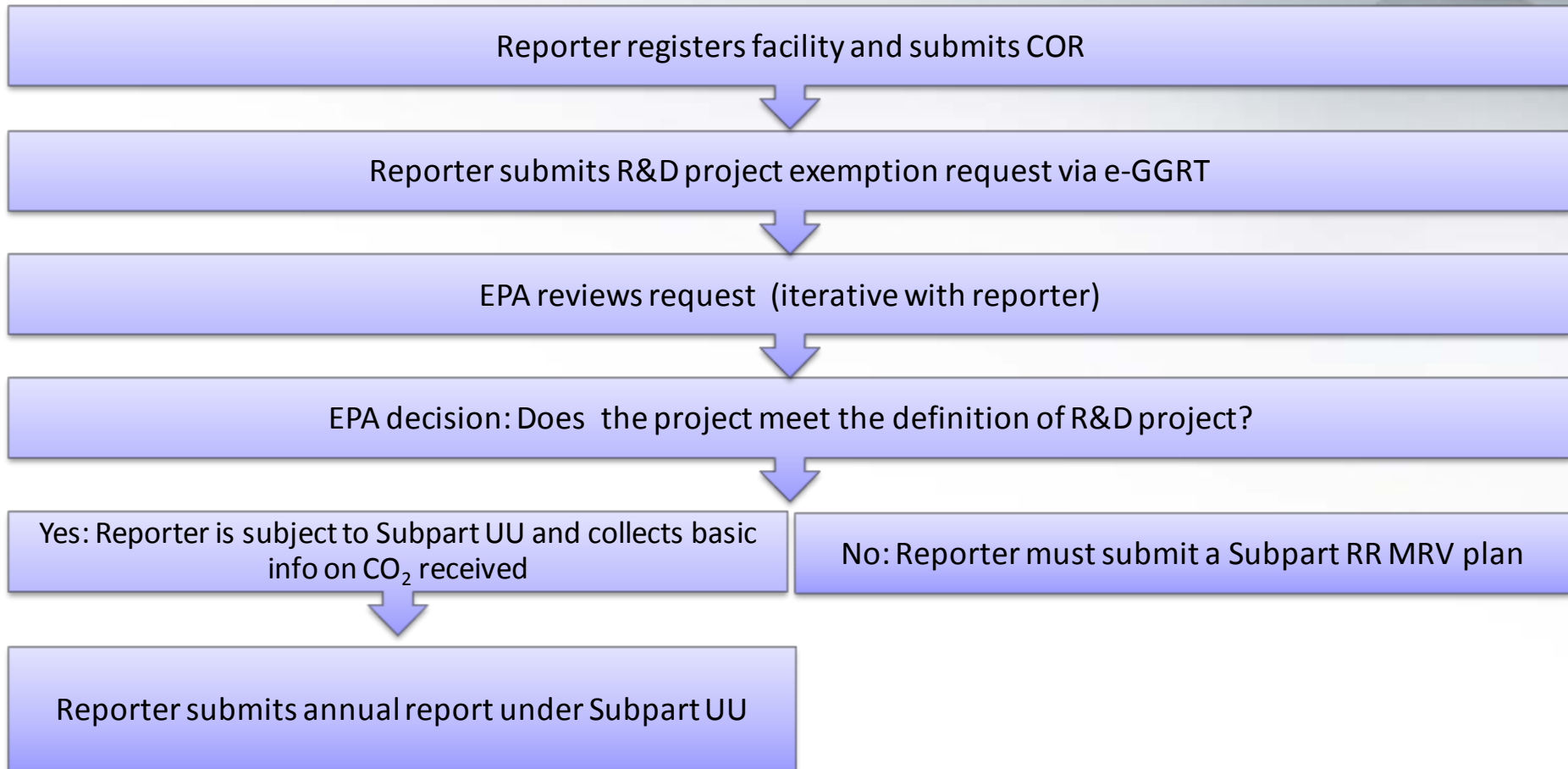
Applicability: Which Facilities Must Report Under Subpart RR?



- Subpart RR source category includes:
 - Any well or group of wells that inject a CO₂ stream for long-term containment in subsurface geologic formations
 - All wells permitted as UIC Class VI wells
- Facilities that conduct enhanced oil and gas recovery are not required to report geologic sequestration under Subpart RR unless
 1. the owner or operator chooses to opt-in to Subpart RR or,
 2. the facility holds a UIC Class VI permit for the well or group of wells used to enhance oil and gas recovery

Facilities that report under Subpart RR are not required to report under Subpart UU

R&D Project Exemption Request Process Overview



Note: EPA decision may be appealed by an interested person to EPA Environmental Appeals Board

R&D Exemption Request Submission Page (example)



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e-GGRT Help

Link to a relevant PDF

Resources by Subpart: Subpart RR

DeMasi Carbon Services, Inc. (2010)
Subpart RR: Geologic Sequestration of Carbon Dioxide
Facility Summary » Subpart RR Overview » **R&D Project Exemption Request**

R&D EXEMPTION REQUEST
Geologic sequestration research and development (R&D) projects will exemption from subpart RR. To receive a subpart RR R&D exemption must complete the form below, then **SUBMIT** and **CERTIFY**.

Web form for R&D project exemption requests.

R&D PROJECT EXEMPTION REQUEST

Name of Project* DeMasi Carbon Services, Inc.

CO₂ injection (for R&D) Start Date

CO₂ injection (for R&D) End Date

Research Purpose

Source and type of funding

Class of Underground Injection Control permit Select

Underground Injection Control permit Start Date

Underground Injection Control permit End Date

Facility Summary CANCEL SAVE

SUBMIT and CERTIFY R&D PROJECT EXEMPTION REQUEST

If you have completed and are satisfied with your R&D Exemption Request you may proceed to certify and submit. This process includes applying your electronic signature (entering your password and answering a challenge/security question).

SUBMIT and CERTIFY

e-GGRT version 1.0 | RR(rdexmpt)

R&D Project Exemption



- R&D projects will be granted an exemption from Subpart RR provided they meet the eligibility requirements
- A project is eligible for the exemption if it meets the Subpart RR definition of R&D project:
 - *a project for the purpose of investigating practices, monitoring techniques, or injection verification, or engaging in other applied research, that will enable safe and effective long-term containment of a CO₂ stream in subsurface geologic formations, including research and short duration CO₂ injection tests conducted as a precursor to long-term storage*
- R&D project exemption requests must be submitted using the webform that is provided in e-GGRT.
- **NOTE:** Projects receiving a Subpart RR R&D exemption report under Subpart UU.

R&D Project Exemption Request Content



- A submission in support of an exemption as an R&D project must contain the following information:
 - The planned duration of CO₂ injection for the project
 - The planned annual CO₂ injection volumes during this time period
 - The research purposes of the project
 - The source and type of funding for the project
 - The class and duration of UIC permit or, for an offshore facility not subject to the Safe Drinking Water Act, a description of the legal instrument authorizing geologic sequestration

R&D Project Exemption Request Content



- The research purpose in the reporter's request provides a key piece of information on which EPA will base its decision to grant or deny the R&D exemption request.
 - EPA encourages reporters applying for an exemption to provide detailed information about the research purpose.
 - Examples:
 - Description of monitoring technologies tested at the GS project
 - Citations for published research at the site, if they exist
 - How the research is moving the science of monitoring GS sites forward
 - Description of the short-term injectivity testing, if this is the purpose of the exemption request
- Other aspects of the submission also provide relevant information on the project
 - For example, the estimated duration the project will aid in determining the length of time of the exemption

MRV Plan Review Process Overview



Notes:

- (1) EPA decision may be appealed by an interested person to EPA Environmental Appeals Board
- (2) MRV plan resubmittals follow the same process

MRV Plan Submission Page (example)



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e-GGRT Help

- Link to a relevant PDF
- Resources by Subpart: Subpart RR

DeMasi Carbon Services, Inc. (2010)
Subpart RR: Geologic Sequestration of Carbon Dioxide
[Facility Summary](#) » [Subpart RR Overview](#)

OVERVIEW OF SUBPART RR

The MRR requires reporting of greenhouse gases (GHGs) from facilities that inject carbon dioxide underground for geologic sequestration (GS). If you are subject to Subpart RR deadlines for submitting a Proposed Monitoring, Reporting, and Verification (MRV) Plan (or extension request) or Research and Development (R&D) project exemption request can be found using the e-GGRT Help and information links on the left.

R&D PROJECT EXEMPTION REQUEST

Name of Project	Certified Date	Status
none		

[+ ADD a R&D Project Exemption Request](#)

MRV PLAN EXTENSION REQUEST

Name of Project	Certified Date
none	

[+ ADD a MRV Plan Extension Request](#)

MRV PLAN

MRV Plan Submission	Certified Date	Status
none		


To submit (or resubmit) an MRV Plan, please **UPLOAD** the entire contents of your MRV Plan as a single ZIP file. After upload you must proceed to **SUBMIT** and **CERTIFY** the plan, a process that includes applying your electronic signature (entering your password and answering a challenge/security question).

Upload MRV plan as a single zip file, submit, and certify.


e-GGRT version 1.0 | RR(overview)

MRV Plan Submission Extension Request (example)





United States Environmental Protection Agency



Electronic Greenhouse Gas Reporting Tool

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[e-GGRT Help](#)
[Link to a relevant PDF](#)
[Resources by Subpart: Subpart RR](#)

DeMasi Carbon Services, Inc. (2010)
Subpart RR: Geologic Sequestration of Carbon Dioxide
[Facility Summary](#) » [Subpart RR Overview](#) » **MRV Plan Extension Request**

MRV PLAN EXTENSION REQUEST
Geologic sequestration monitoring, reporting, and verification (MRV) plans may be granted a submission extension. Extension requests must be made by June 30, 2011. To receive an extension, the facility must complete the form below, then SUBMIT and CERTIFY.

*Denotes a required field. Note, all fields must be complete to Submit and Certify.

R&D EXEMPTION REQUEST DETAILS

Name of project*

I was issued a final Underground Injection Control permit (or legal instrument for an offshore facility not subject to the Safe Drinking Water Act) authorizing the injection of CO2 into the subsurface on

I request that my MRV plan submittal due date be extended by (days)

[← Facility Summary](#) | [CANCEL](#) | [SAVE](#)

CERTIFY and SUBMIT MRV PLAN EXTENSION REQUEST

If you have completed and are satisfied with your MRV Plan Extension Request you may proceed to certify and submit. This process includes applying your electronic signature (entering your password and answering a challenge/security question).

[SUBMIT and CERTIFY](#)

e-GGRT version 1.0 | RR(mrvext)

Contents of MRV Plan



1. Delineation of the maximum monitoring area (MMA) and active monitoring areas (AMAs)
2. Identification of potential surface leakage for pathways in the MMA
3. A strategy for detecting and quantifying surface leakage of CO₂
4. A strategy for establishing the expected baseline for monitoring CO₂ surface leakage
5. Site-specific variables for the mass balance equation
6. Well identification number(s)
7. Proposed date to begin collecting data for calculating total amount sequestered (Equations RR-11 and RR-12)
 - Date must be after expected baselines are established and the leakage detection and quantification strategy is implemented in the initial AMA

1. Monitoring Areas



- **Maximum monitoring area** is the area expected to contain the free phase CO₂ plume until the CO₂ plume has stabilized plus an all-around buffer zone of at least one-half mile
- **Active monitoring area** is the area that will be monitored over a specific time interval from the first year of the period (n) to the last year in the period (t).
 - This allows operators to phase in monitoring so that during any given time interval, only that part of the MMA in which leakage might occur needs to be monitored.

2. Potential Leakage Pathways



- MRV plan must identify the likelihood, magnitude, and timing of potential leakage from each pathway
- Example pathways:
 - Wells
 - Injection well(s)
 - Monitoring wells
 - Active/abandoned oil and gas wells
 - Faults, fractures, and bedding plane partings
 - Confining zone competency, extent and dip

3. Surface Leakage Detection, Verification, and Quantification Strategy



- **Detection**
 - Leakage detection systems may include continuous measurements and/or regular periodic surveys (e.g. water chemistry, airborne surveys, mechanical integrity testing)
 - Detection capability should be described in the MRV plan
- **Verification**
 - Leakage verification allows reporter to confirm the location and source of leakage that has been detected
 - MRV plan may describe the methods and criteria for determining how an anomalous reading or condition will be evaluated to determine if it represents a leak, and to verify the location and source of the leak
- **Quantification**
 - MRV plan must include a discussion of how leaks will be quantified once they are detected and verified
 - Multiple monitoring technologies and quantification techniques can address different leakage pathways and leakage calculation methods

4. Strategy for establishing the expected baseline



- Expected baselines allow the reporter to discern whether the results of monitoring are attributable to leakage of injected CO₂
- Parameters may be environmental such as subsurface pressure, soil flux rates, etc., or operational, such as the injection pressure and the annular pressure in the well
- The MRV plan should describe how the baselines will be determined and how they could be used to detect monitoring anomalies

5. Entrained CO₂ in produced fluids



- Fluids produced at GS facilities may contain CO₂ that is not captured in the gas phase CO₂ measurement downstream of the gas-liquid separator
 - Dissolved gas in the oil or water phase of the produced fluids
 - Dissolved in water extracted from the injection zone
- Equation RR-9 describes the mass balance of CO₂ at the gas-liquid separator including amount of CO₂ in the produced oil and water
 - In the MRV plan, the reporter should estimate the percentage of entrained CO₂ in produced oil or other fluid
 - For example, this can be determined using industry standard laboratory analyses

When Are Annual Reports Due?



- **Subpart RR**

- Submit annual reports to EPA in 2012 reporting basic information on CO₂ received in 2011.
- Once EPA-approved MRV plan is implemented, add data to annual reports on the amount of CO₂ that is geologically sequestered based on mass balance approach and annual monitoring activities.

- **Subpart UU**

- Submit annual reports to EPA in 2012 reporting basic information on CO₂ received in 2011.

For More Information



- Subpart RR Information and Help
 - <http://www.epa.gov/climatechange/emissions/subpart/rr.html>
 - Email: GHGMRR@epa.gov
- e-GGRT Information and Help
 - <http://www.ccdsupport.com>
 - Email: GHGreporting@epa.gov
- GHG Reporting Program Information:
 - <http://www.epa.gov/climate/climatechange/emissions/ghgrulemaking.html>