



Greenhouse Gas Reporting Program: Update

**LMOP Conference
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Agenda



- Changes to subpart HH since October 2009 Final Rule
- Subpart TT - Industrial Waste Landfills
- e-GGRT user and facility registration
- CBI Updates/Corporate Parent reporting
- Efforts to reach potential reporters
- What happens once EPA gets the emissions reports

Changes to Subpart HH – MSW Landfills



- Technical corrections to several subparts finalized and published in Federal Register on October 28, 2010
 - Most corrections identified through questions and requests for clarification received through the hotline
- Most prominent changes:
 - Measuring waste quantities
 - Equation HH-1
 - Table HH-1
 - Moisture content measurements
 - Definitions added

Changes to Subpart HH - Measuring Waste Quantities



- Required to use scales if they are already in place
 - Except for passenger vehicles and light duty trucks and loads that cannot be measured using scales due to physical or operational limitations
 - Two options for scale use
 - Directly weigh each load upon entry and after it is off-loaded
 - Directly weigh each load upon entry and use a determined tare weight for representative container types

Changes to Subpart HH - Measuring Waste Quantities



- If no scales, determine working capacity or mass of waste per type of container
 - May determine volumetric capacity of containers and average density of the waste as received.
 - Can use wheel-load scales or portable axle-load scales
 - Record the number and types of containers and use working capacity to calculate waste quantities
- Reporters must also indicate whether scales are present at the landfill

Changes to Subpart HH - Equation HH-1



- **First Order Decay equation**
 - Replaced L_0 with its components ($MCF \times DOC \times DOC_f \times F \times 16/12$)
 - Provides clarity of terms but does not effect actual calculation
- **Provide default values for MCF (1) and DOC_f (0.5) that must be used**
 - Except where there is active aeration in which case a lower MCF value may be used based on site specific parameters

Changes to Subpart HH - Equation HH-1



- **K-values must be selected from Table HH-1**
 - Use the k-value most appropriate for the amount of precipitation plus recirculated leachate for the majority of the past 10 years.
 - K-values based on site-specific measurements are no longer allowable for Equation HH-1
 - We expect leachate circulation to be determined based on company records or engineering estimates
 - No monitoring methods specified or required

Changes to Subpart HH – Table HH-1



- Included default k and DOC values for inerts
 - To account for non-degradable wastes found in landfills
- Added alternative “bulk MSW” option
 - Three waste categories: bulk, inerts, and C&D
 - Allows landfills to characterize wastes into categories more typical of the industry without the detail needed for the waste composition option

Changes to Subpart HH - Moisture Content Measurements



- Clarified when moisture content is needed
 - “If the CH₄ content is determined on a dry basis and flow is determined on a wet basis or CH₄ content is determined on a wet basis and flow is determined on a dry basis.”
 - Amended Eq. HH-4 to add a moisture correction factor (K_{mc}) and included the different measurement scenarios
- Added reference to moisture content monitors

Changes to Subpart HH - Definitions



- Clarified exclusion of RCRA Subtitle C or TSCA hazardous waste landfills, C&D landfills, and industrial waste landfills
 - Definitions included for C&D and industrial waste LFs
- Amended definition of “gas collection system” to clarify that passive vents/flares are not included
 - A system collects gas actively by a fan or similar mechanical draft equipment
 - A single landfill may have more than one gas collection system

Changes to Subpart HH - Various



- Delete “install” to allow use of portable monitors
- “Weekly” clarified to be “at least once each calendar week; if only one measurement is made each calendar week, there must be at least three days between measurements”

Subpart TT – Industrial Waste Landfills



- On July 12, 2010, EPA published a final rule adding 4 new source categories to the GHGRP
 - Magnesium production (T)
 - Underground coal mines (FF)
 - Industrial wastewater treatment (II)
 - Industrial waste landfills (TT)

Subpart TT – Which landfills must report?



- **Industrial waste landfills**
 - Definition in 40 CFR 98.460
 - Excludes C&D and hazardous waste landfills (RCRA Subtitle C or TSCA)
- **Accepted waste since January 1, 1980**
 - Covers both open and closed industrial landfills
- **Design capacity of 300,000 metric tons or more**
- **Excludes landfills that only receive inert wastes**
 - List of inert wastes provided in 40 CFR 98.460(c)(2)
 - E.g. glass, plastics, brick/cement, rocks and soil from excavation

Subpart TT - Applicability



- An industrial landfill must report if it meets the criteria on the previous slide and the requirements of 40 CFR 98(a)(2):
 - Emits 25,000 metric tons of CO₂e or more per year in combined emissions for all source categories (stationary combustion, etc.)
 - Applicability for subpart TT based on CH₄ generation corrected for oxidation (using Equation TT-6)

Subpart TT - GHGs to report



- Report 3 items:
 - CH₄ generation and emissions from the landfill
 - CH₄ destruction from collection and combustion, if present
 - We do not expect industrial landfills to have gas collection
 - If gas collection exists, facilities are referred back to the monitoring requirements and calculations in subpart HH
 - CH₄, CO₂ and N₂O from combustion devices (reported under subpart C), if present

Schedule for Monitoring and Reporting



1/1/10	Started collecting data
12/31/10	Completed 2010 data collection
1/30/11	Register facility via e-GGRT and submit certificate of representation
3/31/11	Submit GHG report for 2010
Ongoing	Submit corrected report 45 days after each discovery
Ongoing	Submit annual reports on 3/31 each year

- Under Subpart TT, industrial waste landfills must begin monitoring in January 2011 and submit their first annual report by March 31, 2012.

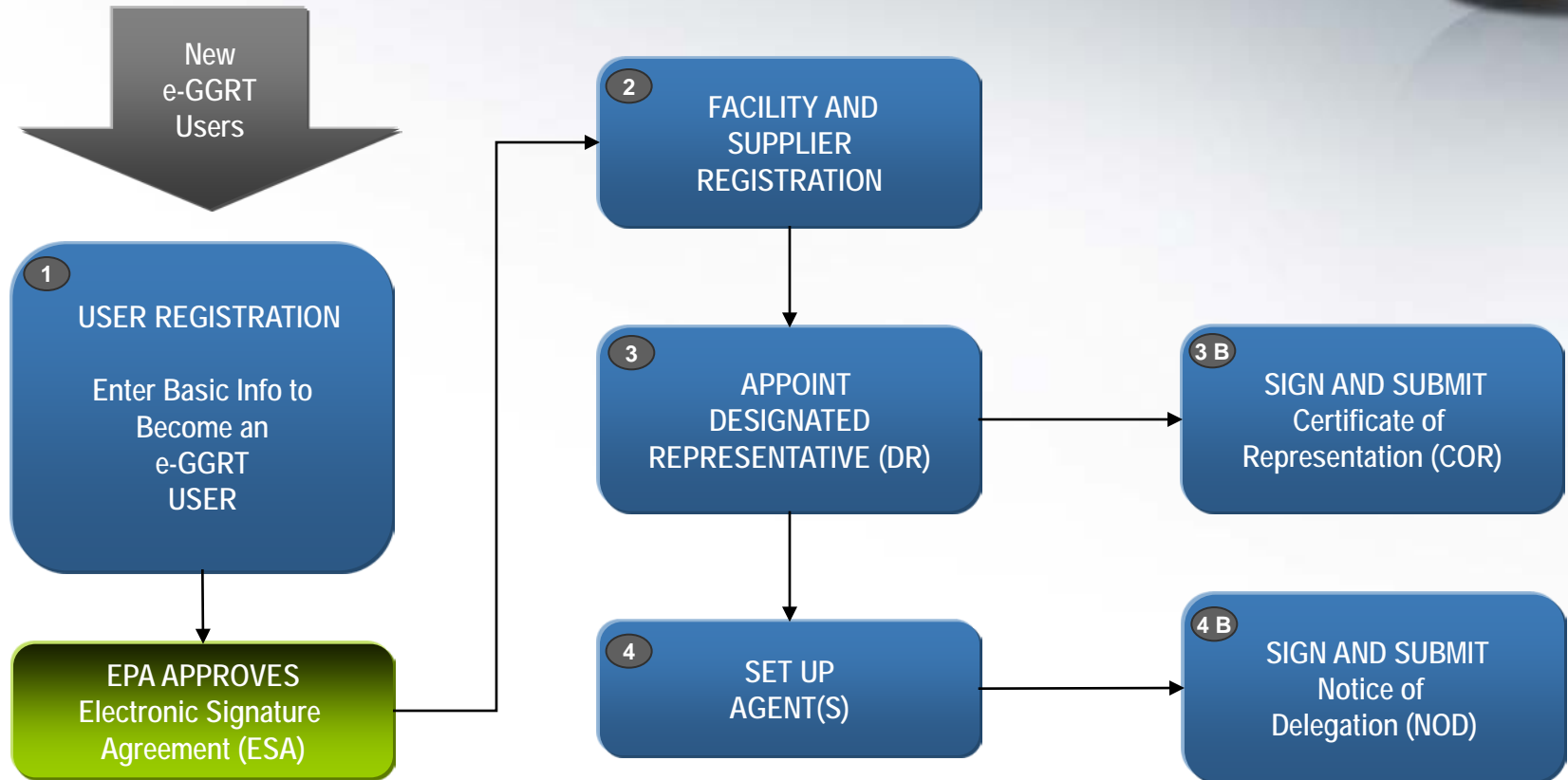
Electronic Reporting System



- All reporting under the GHG Reporting Program will be electronic.
- Web-based system for facility to EPA reporting
 - Web-forms will guide reporters through data entry and submission with built in defaults and calculations
 - Will include a mechanism to submit file directly using Extensible Markup Language (XML) format.
 - XML schema is available on the EPA website.



e-GGRT Registration Overview



User Registration – Login Page



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

Context sensitive help on
every page

Click the green NEW
USER REGISTRATION
button

User Registration



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.

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

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. If you are uncertain, the [Applicability Tool](#) is required to report greenhouse gas (GHG) emissions to Suppliers and other affected entities.

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

Registering a Facility



EPA United States Environmental Protection Agency

e-GGRT Electronic Greenhouse Gas Reporting Tool

HOME FACILITY REGISTRATION FACILITY MANAGEMENT

Click "Register A Facility" from your e-GGRT Home Page

REGISTER A FACILITY

YOUR FACILITIES:

Facility or Supplier	Your Role
No Registered Facility	

ACCEPT AN INVITATION:

Responding to a Facility Invitation?

Paste the Invitation Code into the field below, then click 'GO'

e-GGRT Announcements

2010-09-01 08:00:00

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.

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...	600 COUNTY LINE ROAD BOYERTOWN, PA 19512	Available
<input type="radio"/>	CABOT S...	COUNTY LINE RD BOYERTOWN, PA 19512	Available
<input type="radio"/>	CAMPE...	30 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.

e-GGRT support



- Training sessions and slides
 - <http://www.epa.gov/climatechange/emissions/training.html#eggrrt>
- 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
- URL: www.ccdsupport.com

Confidential Business Information (CBI)



- **3 Concurrent Actions on Confidentiality Determinations and Reporting Deferral on Part 98 Data**
 - Interim Final: Defers the reporting date for certain data elements (inputs to emission equations) until Aug 31, 2011 for the 2010 reporting year
 - Proposed rule: Defers reporting of certain data elements for calendar years 2010, 2011, and 2012 until March 31, 2014
 - Call for Information: Review and evaluate additional information to resolve issues
- **E-GGRT is equipped to handle CBI**

Corporate Parent/Ownership



- On September 16, 2010 EPA finalized an amendment to the GHGRP adding 3 requirements to annual reports
 - Names and physical addresses of a facility's U.S. parent companies and the percentage of ownership of each
 - Facility's primary NAICS code and all additional NAICS codes
 - Indication if emissions from a cogeneration unit are included

Efforts to Notify Potential Reporters



- Postcard sent to 2000 landfills notifying them about the registration and reporting deadline
 - With websites to get more information
- Enforcement Alert being sent out by EPA's Enforcement Office (OECA)
 - Provides basic info on the rule
 - Lists what is considered a violation and penalties
- Email blasts to industry contacts and RSS Feed from website with notification of “what's new”
 - E.g. new rulemaking actions or availability of e-GGRT registration

What Happens Once We Get the Data - Verification Process



- Two Step Process:
 - [Step 1](#): Electronic Verification
 - Pre-submittal warning for reporters outside reasonable ranges
 - Post-submittal verification through logic checks and statistical analysis across facilities
 - [Step 2](#): Staff review & direct follow-up
 - Staff review verification results
 - Phone/email follow-up
 - Targeted site visits as necessary

What Happens Once We Get the Data - Publication



- Goal : Design a dynamic, easy-to-use, visually-pleasing GHG publication portal
- Milestones
 - Dec 2010 to May 2011: Define requirements, and build data mart/publication tool
 - June 2011: launch tool
- Refresh data periodically to accommodate resubmissions
- Roll out additional features in later versions

Key Resources



- **Program Website:**
<http://epa.gov/climatechange/emissions/ghgrulemaking.html>
- **Data System Updates and view of XML schema:**
<http://epa.gov/climatechange/emissions/data-reporting-system.html>
- **Webinars and Training:**
<http://www.epa.gov/climatechange/emissions/training.html>
- **Email (hotline) with questions:**
GHGMRR@epa.gov