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e-GGRT Training Webinar on Reporting GHG Data for Subpart L

U.S. Environmental Protection Agency
Greenhouse Gas Reporting Program (GHGRP)
September 2012

Webinar Outline



- Subpart A
- Subpart L
 - Selecting a Subpart
 - Reporting Data
- For a more general overview of e-GGRT reporting, please see "e-GGRT Overview Webinar" at:
www.epa.gov/ghgreporting/documents/pdf/2012/training/e-ggrrt_RY2011_overview.pdf

Topics for Q & A



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

e-GGRT Help



- www.ccdsupport.com or
- Via Help links in e-GGRT  e-GGRT Help

A screenshot of the e-GGRT Help website. The header includes the EPA logo and the text "United States Environmental Protection Agency" on the left, and the "e-GGRT Electronic Greenhouse Gas Reporting Tool" logo on the right. Below the header is a search bar with a "Search" button. The main content area is titled "Welcome to e-GGRT Help" and includes a brief description: "This site contains news, tutorials, FAQs, help and other information about e-GGRT." There are three main content boxes: "e-GGRT News" with a "Latest News" section containing links for "Registration Open for e-GGRT Sandbox Testing" and "GHG Rulemaking RSS Feed"; "Learn about e-GGRT" with a list of links including "Getting Started", "Tutorials", "Registration Instructions", "E-GGRT XML Reporting Schema", and "Outreach and Training"; and "Help" with a list of links including "About GHG Reporting Program and Part 98", "FAQs", "Known Issues", and "Contact Us".

Adding Subparts



HOME FACILITY REGISTRATION FACILITY MANAGEMENT DATA REPORTING

Hello, Marcus Palmer | My Profile | Logout

- e-GGRT Help
- How to add a subpart and report data
- General reporting information
- How to submit an annual report

TEST Facility

e-GGRT Greenhouse Gas Data Reporting (2011)

Select Facility » [Facility](#) or [Supplier Overview](#)

FACILITY OR SUPPLIER OVERVIEW

This page allows you to add the source and/or supplier categories for which your facility or supplier will be reporting, then to access those data reporting screens using the OPEN buttons.

After data reporting is complete, you can initiate the annual report review and submission process from this page by using the SUBMIT button (or RESUBMIT for subsequent submissions if needed).

Facility's GHG Reporting Method: Data entry via e-GGRT web-forms ([Change](#))

CO₂ equivalent emissions from facility subparts C-II and RR-UU (metric tons)

Biogenic CO₂ emissions from facility subparts C-II and RR-UU (metric tons)

CO₂ equivalent emissions from supplier subparts LL-QQ (metric tons)

[VIEW GHG DETAILS](#)

REPORT DATA

2011 Reporting Source or Supplier Category	Validation Messages?	Subpart Reporting
Subpart A—General Information	View Messages	OPEN

[+](#) ADD or REMOVE Subparts



Adding Subpart: Subpart Selection



 e-GGRT Help

How to add a subpart and report data

TEST Facility

e-GGRT Greenhouse Gas Data Reporting (2011)

[Select Facility](#) » [Facility Overview](#) » [Subpart Selection](#)

SUBPART SELECTION

Please check all relevant subparts for this facility or supplier. Further information can be found in the e-GGRT Help links to the left.

FACILITY SUBPARTS

D—Electricity Generation

Description ([SHOW](#) | [HIDE](#))

E—Adipic Acid Production

Description ([SHOW](#) | [HIDE](#))

F—Aluminum Production

Description ([SHOW](#) | [HIDE](#))

G—Ammonia Manufacturing

Description ([SHOW](#) | [HIDE](#))

H—Cement Production

Description ([SHOW](#) | [HIDE](#))

I—Electronics Manufacturing

Description ([SHOW](#) | [HIDE](#))

K—Ferroalloy Production

Description ([SHOW](#) | [HIDE](#))

L—Fluorinated Gas Production

Description ([SHOW](#) | [HIDE](#))

GENERAL STATIONARY FUEL COMBUSTION

C—General Stationary Fuel Combustion (Standard Reporting)

Description ([SHOW](#) | [HIDE](#))

LANDFILL SUBPARTS

HH—Municipal Solid Waste Landfills

Description ([SHOW](#) | [HIDE](#))

TT—Industrial Waste Landfills

Description ([SHOW](#) | [HIDE](#))

SUPPLIER SUBPARTS

LL—Suppliers of Coal-based Liquid Fuels

Description ([SHOW](#) | [HIDE](#))

MM—Suppliers of Petroleum Products

Description ([SHOW](#) | [HIDE](#))

NN—Suppliers of Natural Gas and Natural Gas Liquids

Description ([SHOW](#) | [HIDE](#))

OO—Suppliers of Industrial Greenhouse Gases

Description ([SHOW](#) | [HIDE](#))

! Note: Removing (un-checking) a subpart will erase any data that has been entered for that subpart.



Opening Subpart A



EPA United States Environmental Protection Agency

e-GGRT Electronic Greenhouse Gas Reporting Tool

HOME FACILITY REGISTRATION FACILITY MANAGEMENT DATA REPORTING

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Subpart SS Applicable Facility
e-GGRT Greenhouse Gas Data Reporting (2011)
[Select Facility](#) » [Facility or Supplier Overview](#)

FACILITY OR SUPPLIER OVERVIEW
This page allows you to add the source and/or supplier categories for which your facility or supplier will be reporting, then to access those data reporting screens using the OPEN buttons.
After data reporting is complete, you can initiate the annual report review and submission process from this page by using the SUBMIT button (or RESUBMIT for subsequent submissions if needed).
Facility's GHG Reporting Method: Data entry via e-GGRT web-forms ([Change](#))

CO₂ equivalent emissions (excluding biogenic) from subparts C - HH (metric tons)
Biogenic CO₂ emissions from subparts C - HH (metric tons)
CO₂ equivalent quantity from supplier categories (metric tons)
[VIEW GHG DETAILS](#)

REPORT DATA

2011 Reporting Source or Supplier Category	Validation Messages?	Subpart Reporting
Subpart A—General Information	View Messages	OPEN
Subpart SS—Electrical Equipment Manufacturer or Refurbishment	View Messages	OPEN

[+](#) ADD or REMOVE Subparts

If all subparts are completed and Validation Messages addressed to your satisfaction, you are ready to prepare and submit an Annual Report.

SUBMIT ANNUAL REPORT

Report	Uploaded File Name	Status	Submitted Date	Certification Date


[GENERATE / RESUBMIT](#)

[VIEW REPORTS](#): Annual Report reviewable formats (including public, non-CBI versions and trend reports) for all submissions this reporting year can be accessed on the View Reports page.




Subpart A Screenshot





United States Environmental Protection Agency



e-GGRT
Electronic Greenhouse Gas Reporting Tool


HOME FACILITY REGISTRATION FACILITY MANAGEMENT DATA REPORTING

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Subpart SS Applicable Facility
Facility Reporting Information (2011)
Select Facility » Facility or Supplier Overview » Subpart A

SUBPART A – GENERAL INFORMATION
Each facility or supplier, and for each reporting year is required to supply some basic facility level information, including the entering and reporting of relevant NAICS codes and the entering and reporting of all highest-level United States parent companies.

EPA has finalized a rule that defers the deadline for reporting data elements used as inputs to emission equations for direct emitters. See 76 FR 53057 (published August 25, 2011). In accordance with the rule, e-GGRT is not currently collecting data used as inputs to emission equations.


 [Subpart A: View Validation](#)

NAICS CODES

NAICS Code	Description	Relevance	Delete
No NAICS codes found.			
+ ADD a NAICS Code			

U.S. PARENT COMPANIES

Parent Company	Address	% of Ownership	Delete
No parent companies found.			
+ ADD a Parent Company			

GHG report start date: * 

GHG report end date: * 

Subpart A - General Information



- All must report Subpart A information:
- NAICS codes
- U.S. Parent Company
- Start date and end date for report
- Methodological changes during the year, if applicable
- Best Available Monitoring Methods used, if applicable
- Indicate if emissions include emissions from cogeneration

Inputs, CBI, and Calculation Spreadsheets



- e-GGRT reflects the final rule deferring the reporting deadline for inputs to emission equations for direct emitters (76 FR 53057, published Aug. 25, 2011)
- e-GGRT also reflects the recent final rule (signed 8/3/12) deferring the deadline for reporting most other data elements under subpart L and requiring reporting of emissions at the facility level in CO₂-equivalent in the meantime.
- Reporting elements that have been determined to be CBI will be protected under the Clean Air Act (Sec. 114(c)) and EPA regulations (40 CFR Part 2).
- Calculation spreadsheets are optional and should not be submitted to EPA.

Calculation Spreadsheets: Example



Subpart L - Fluorinated Gas Production
Equation L-19 Mass of fluorinated GHG emitted from process vent
OPTIONAL SPREADSHEET FOR FACILITY RECORDKEEPING PURPOSES
 Version e-GGRT RY2012.C.01 Updated: 9/13/12

This spreadsheet is protected and contains locked cells to ensure that you do not inadvertently alter any of the included formulas and/or To remove this protection and alter this spreadsheet, right-click the "worksheet" tab near the bottom of the screen and select "Unprotect When prompted for the password, type "GHG" and click "OK." Please note that making changes to an unprotected sheet could result in calculations and that you are responsible for the accuracy of the data you report to EPA. For additional help, visit the Microsoft Excel website (<http://office.microsoft.com/en-us/excel-help>).

Equation L-19:
$$E_{\text{ContPV}} = \frac{C_{\text{PV}}}{10^6} * MW * Q_{\text{PV}} * \frac{1}{SV} * \frac{1}{10^3} * \frac{60}{1} \quad (\text{Eq. L-19})$$

Facility Name:	
Reporter Name:	
Reporting Year:	
Comments:	
Unit Type:	Fluorinated Gas Production
Type of Process:	
Process Name:	
Process ID:	
Operating Scenario ID:	
Process Vent ID:	
Fluorinated GHG:	
Test Run ID:	

Input Data

[C_{PV}] = Concentration of fluorinated GHG i during test run r of the emission test (ppm)	
[MW] = Molecular weight of fluorinated GHG i (g/g-mole)	
[Q_{PV}] = Flow rate of the process vent stream during test run r of the emission test (m ³ /min)	

Constants

[SV] = Standard molar volume of gas (0.0240 m ³ /mole at 68 F and 1 atm)	0.0240
[10⁶] = Conversion factor (1 kilogram/1,000 grams)	0.0010
[60/1] = Conversion factor (60 minutes/1 hour)	60.0000

Mass of fluorinated GHG emitted from process vent

[E_{ContPV}] = Mass of fluorinated GHG i emitted from process vent v from process i, operating scenario j, during the emission test during test run r (kg/yr)	<input type="text"/>
--	----------------------

Enter this value in Equation L-20

Equation L-19 Equation L-20 Equation L-21 Equation L-22 Equation L-23 Equation L-24 Equation L-25 Equation L-26 Equation L-27 Equation L-28

Subpart L Reporting Form



HOME FACILITY REGISTRATION FACILITY MANAGEMENT DATA REPORTING

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e-GGRT Help

Subpart L: Fluorinated Gas Production (2011)

Subpart Overview

OVERVIEW OF SUBPART REPORTING REQUIREMENTS

Subpart L requires affected facilities to report their total emissions of fluorinated GHGs, the emission estimation approaches used to determine mass emissions from the facility, and, if applicable, the emission estimation method used to determine equipment leak emissions.

Subpart L requires affected facilities to report their total annual emissions of fluorinated GHGs for the entire facility, expressed in terms of metric tons of carbon dioxide equivalent (CO₂e). This includes emissions from all fluorinated gas production processes, all fluorinated gas transformation processes that are not part of a fluorinated gas production process, all fluorinated gas destruction processes that are not part of a fluorinated gas production process or a fluorinated gas transformation process, and venting of residual fluorinated GHGs from containers returned from the field.

If applicable, also provide the total annual emissions of fluorinated GHGs that were calculated using the default GWP of 2,000, the total annual emissions that were calculated using the default GWP of 10,000, and the total annual emissions that were calculated using your best estimate of the GWP. All masses should be provided in CO₂e and should include all significant figures, including fractions of tons, if applicable.

If you are subject to other subparts (e.g. subpart C) you should return to the Facility Overview page, select the appropriate subpart(s), and complete the data reporting requirements of each subpart. To satisfy the Subpart L reporting requirements, begin by providing the annual fluorinated GHG emission data in the "Facility F-GHG Emissions" fields below, expressed as CO₂e. The e-GGRT system will validate the data entered. If there are no validation issues, the message "Subpart L: No Validation Messages" will appear under the blue calculation box. If a "View Validation" link is visible, select this link to review any issues. If necessary, make any revisions necessary.

Total Facility F-GHG Emissions (metric tons of CO₂ equivalent)

Facility F-GHG Emissions. Calculated using default GWP of 2,000 (metric tons of CO₂ equivalent)

Facility F-GHG Emissions. Calculated using default GWP of 10,000 (metric tons of CO₂ equivalent)

Facility F-GHG Emissions. Calculated using your best estimate of the GWP (metric tons of CO₂ equivalent)



[Subpart L: View Validation](#)

Subpart L Reporting Form



If you used the process-vent-specific emission factor (EF) approach and/or the process-vent emission calculation factor (ECF) approach, you are also required to provide the method used to estimate emissions from equipment leaks. Indicate whether or not each of the listed estimation methods was used by selecting the applicable methods under "Equipment Leak Emissions Estimation Method." Once the facility information has been completed, scroll to the bottom of the page and select "save" to store your data.

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

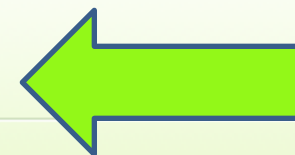
SUBPART L SUMMARY INFORMATION FOR THIS FACILITY

* denotes a required field

FACILITY F-GHG EMISSIONS

Fill out the following with the F-GHG emissions information at the facility level. Note that the last three entries are each a subset of total facility F-GHG emissions reported. (The values entered here will also appear in the blue calculator box at the top right of this page.)

Total Facility F-GHG Emissions *	<input type="text"/>	(metric tons of CO ₂ equivalent)
Facility F-GHG emissions calculated using default GWP of 2,000	<input type="text"/>	(metric tons of CO ₂ equivalent)
Facility F-GHG emissions calculated using default GWP of 10,000	<input type="text"/>	(metric tons of CO ₂ equivalent)
Facility F-GHG emissions calculated using your best estimate of the GWP	<input type="text"/>	(metric tons of CO ₂ equivalent)



Subpart L Reporting Form



MASS EMISSIONS DETERMINATION APPROACH

Please select from the following the approaches used to determine the mass emissions at your facility. Leave an entry unchecked if the approach was not utilized.

- Mass Balance
- Process-Vent-Specific Emission Factor
- Process-Vent-Specific Emission Calculation Factor

EQUIPMENT LEAK EMISSIONS ESTIMATION METHOD

Please select from the following the methods used to estimate emissions from equipment leaks if the process-vent-specific emission factor approach and/or the process-vent emission calculation factor approach were used. Leave an entry unchecked if the approach was not utilized.

- Average Emission Factor Approach in EPA Protocol for Equipment Leak Emission Estimates (EPA Protocol)
- Screening Ranges Approach (in EPA Protocol) in conjunction with EPA Method 21
- EPA Correlation Approach (in EPA Protocol) in conjunction with EPA Method 21
- Unit-Specific Correlation Approach (in EPA Protocol) in conjunction with EPA Method 21
- Screening Ranges Approach (in EPA Protocol) in conjunction with site-specific leak monitoring methods
- EPA Correlation Approach (in EPA Protocol) in conjunction with site-specific leak monitoring methods
- Unit-Specific Correlation Approach (in EPA Protocol) in conjunction with site-specific leak monitoring methods
- Other Site-Specific leak monitoring methods

CANCEL

SAVE

Subpart L Reporting Form



e-GGRT Help

TEST Facility

Subpart L: Fluorinated Gas Production (2011)

Subpart Overview

OVERVIEW OF SUBPART REPORTING REQUIREMENTS

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Total Facility F-GHG Emissions (metric tons of CO₂ equivalent)

Facility F-GHG Emissions. Calculated using default GWP of 2,000 (metric tons of CO₂ equivalent)

Facility F-GHG Emissions. Calculated using default GWP of 10,000 (metric tons of CO₂ equivalent)

Facility F-GHG Emissions. Calculated using your best estimate of the GWP (metric tons of CO₂ equivalent)



Subpart L: View Validation

Questions?



- **e-GGRT Information & Help**
 - <http://www.ccdsupport.com>
 - Email: GHGreporting@epa.gov
- **GHG Reporting Rule Information & Help**
www.epa.gov/ghgreporting/reporters/index.html
- **Other Subpart L resources**
www.epa.gov/ghgreporting/reporters/subpart/l.html