

**The following webinar was delivered on May 30, 2012. The webinar describes the process anticipated at that time for submitting data under 40 CFR, part 98, subpart QQ.**

**Based on comments received during the webinar, EPA has decided to change the data entry method from the one shown in the webinar (inputting data on web-forms) to a “simplified reporting” method (providing data on an Excel-based spreadsheet). The data that will be provided in the Excel spreadsheet is similar to that shown here in the webinar.**

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e-GGRT Training Webinar on  
**Reporting GHG Data for Subpart QQ**

**U.S. Environmental Protection Agency**  
Greenhouse Gas Reporting Program (GHGRP)  
May 30, 2012

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Hello, and welcome to the e-GGRT training webinar on using EPA's electronic Greenhouse Gas Reporting Tool to report GHG Data for Subpart QQ.

My Name is Dave Godwin, and I am in EPA's Stratospheric Protection Division. With me today are my colleagues Jeremy Arling, also from the Stratospheric Protection Division, and Caitlin Stormont, from EPA's Climate Change Division.

Today's webinar will help orient you and prepare you for the e-GGRT Sandbox sessions that will run from June 4<sup>th</sup> to 15<sup>th</sup>. This testing will provide you with an opportunity to examine the look, feel and functionality of e-GGRT specifically for GHG Data Reporting.

The e-GGRT Help Desk will be available to respond to any problems or questions you have specific to the Data Reporting functionality of e-GGRT during this window.



**This training is provided by EPA solely for informational purposes. It does not provide legal advice, have legally binding effect, or expressly or implicitly create, expand, or limit any legal rights, obligations, responsibilities, expectations, or benefits in regard to any person.**

## Webinar Outline



- Links for Help and Additional Information
- Sandbox Testing
- Who Must Report under Subpart QQ?
- Confidential Business Information
- Subpart QQ
  - Selecting a Subpart
  - Reporting Data
- Questions

## Links for Help and Additional Information



- e-GGRT Information & Help
  - <http://www.ccdsupport.com>
  - Email: [GHGreporting@epa.gov](mailto:GHGreporting@epa.gov)
- GHG Reporting Rule Information & Help
  - <http://www.epa.gov/ghgreporting/reporters/index.html>
  - Email: [GHGMRR@epa.gov](mailto:GHGMRR@epa.gov)
- Other Subpart QQ resources
  - <http://www.epa.gov/ghgreporting/reporters/subpart/qq.html>

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Here are some additional links

Under the general GHG Reporting Rule link, there is a tab for QQ resources (the direct link is shown here).

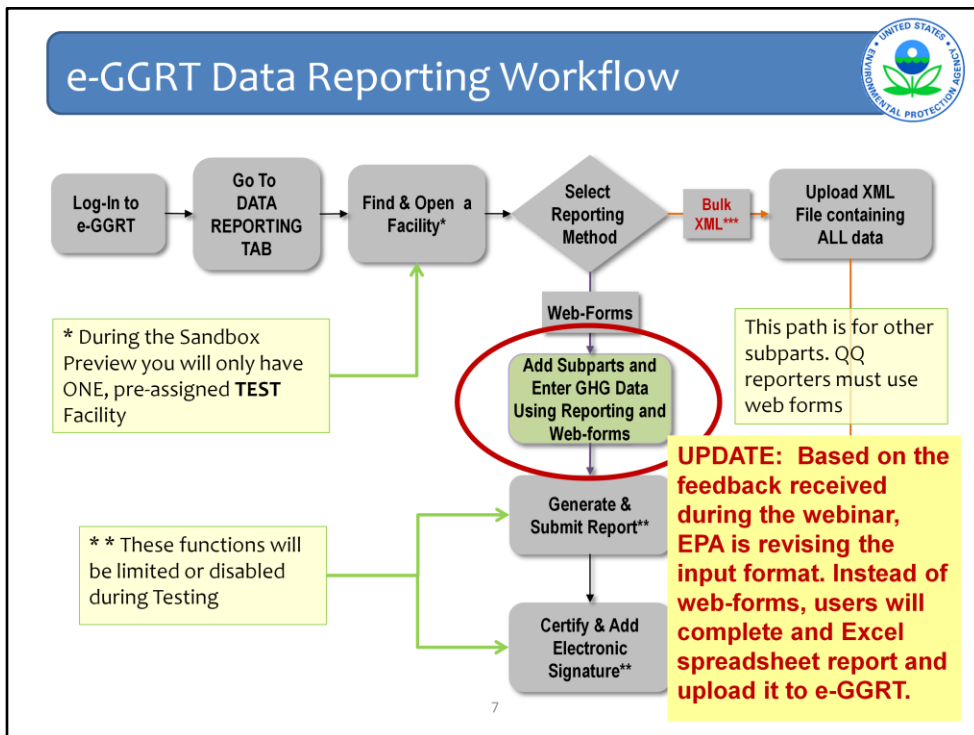
## Sandbox Testing



- For an overview of reporting GHG data via e-GGRT, please see the e-GGRT and Sandbox Testing Overview presentation at:  
<http://www.epa.gov/ghgreporting/reporters/training/index.html>
- Sandbox testing will be open June 4-15, 2012

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There's also a tab for Training and Testing (the direct link is shown here). We'll place copies of today's webinar slides as well as more general items like an e-GGRT overview on this webpage.



This Slide illustrates the steps that are taken by a reporter to enter data into e-GGRT and submit it to EPA.

For this webinar, I'm assuming you know how to log-in and find your facility or company under which data is reported. Today's webinar will focus only on Entering Subpart Specific QQ Data into e-GGRT.

For more information on the other, related steps or general features of e-GGRT, please refer to or attend the e-GGRT Overview Training Webinar.

For subpart QQ, all users must use webforms; there is no option to upload XML data.

**Update since May 30, 2012: Based on feedback received during the webinar, EPA is revising the way users submit data. Instead of typing data directly into the web-forms shown in the following slides, users will enter data into an Excel-based spreadsheet. Once a user completes the Excel spreadsheet reporting form, the user will upload it to the e-GGRT system.**

# e-GGRT Version & Screen Code



United States Environmental Protection Agency

HOME FACILITY REGISTRATION FACILITY MANAGEMENT DATA REPORTING

Electronic Greenhouse Gas Reporting Tool

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e-GGRT Help  
About e-GGRT Home

**FACILITIES YOU RECENTLY SUBMITTED FOR REGISTRATION:**

GHGRP ID	Facility or Supplier
525637	Greenbelt Gas (Laurel, MD)

[REGISTER A FACILITY](#)

**ACCESS YOUR FACILITIES:**

Facility or Supplier	Your Role
OO-Supplier 1	DR
OO-C-O-PP-Supplier 2a	DR
F-Aluminum Test 1	DR

**ACCEPT AN INVITATION:**

Use a 1-time Invitation Code?  
Paste an Invitation Code into the field, then click 'GO'. (If you have already used a code to accept a role at a facility, you may access that facility from the list to the left.)

[GO](#)

e-GGRT Announcements

Paperwork Reduction Act Burden Statement | Contact Us

e-GGRT RY2011-T2.R.22 | UA1-2

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If you experience problems or have questions when using e-GGRT, please refer to the e-GGRT Version number and Screen Code in any correspondence with our Help Desk. These can be found on the bottom right hand corner of every web-page within e-GGRT.



## Who Must Report under Subpart QQ?



- Importers or exporters with total annual imports or exports of fluorinated GHGs in equipment and closed-cell foams >25,000 metric tons CO<sub>2</sub>e
- Includes electrical and refrigerated units, components thereof, and closed-cell foam
- For example the following are >25,000 metric tons CO<sub>2</sub>e:
  - 32,259 refrigerators (containing 0.2 kg HFC-134a refrigerant and 0.5 kg HFC-245fa in the foam)
  - 96,154 refrigerators (containing 0.2 kg HFC-134a refrigerant and HC foam)
  - 2,899 unitary air conditioning condensing units (containing 5 kg R-410A refrigerant)
  - 94 circuit breakers (145kV) (containing a holding charge of 11.2 kg SF<sub>6</sub>)

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Refrigerator: 0.2kg=7 ounces, 0.5kg=1.1 pounds

AC: about a 5-5.5 ton unit

These are examples for those importing or exporting just a single type of equipment. You must include all types of equipment (with fluorinated greenhouse gases) imported/exported in your report.

## Other Criteria



- Reporting is at the corporate level
  - Not facility level
- Transshipments are excluded
  - See definition in 40 CFR §98.6
- Slides with more information on the rule:  
[http://www.epa.gov/ghgreporting/documents/pdf/2012/training/Subpart-QQ\\_Only\\_2-8-12.pdf](http://www.epa.gov/ghgreporting/documents/pdf/2012/training/Subpart-QQ_Only_2-8-12.pdf)

## Confidential Business Information (CBI)



- Data elements that have been determined to be CBI and those that have no determination must be reported in e-GGRT
- 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)

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EPA issues determinations regarding what type of data is considered as confidential business information (CBI) and is protected as such under the Clean Air Act and EPA regulations.

For instance, on January 10, 2012, EPA issued a proposed rule regarding some of the data submitted under subpart QQ. The proposed rule listed categories of data supplied by reporters and proposed whether those data would be considered as “emissions data” (no data categories under QQ were proposed as such), “Data that are not emissions data and are not CBI” and “Data that are not emissions data but are CBI.” Please see 77 CFR 1434 (available at <http://www.gpo.gov/fdsys/pkg/FR-2012-01-10/pdf/2011-33591.pdf>) for more details.

**Adding Subparts**

United States Environmental Protection Agency

e-GGRT Electronic Greenhouse Gas Reporting Tool

HOME FACILITY REGISTRATION FACILITY MANAGEMENT DATA REPORTING

OO-Supplier 1  
**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)

**REPORT DATA**

2011 Reporting	Source or Supplier Category	Validation Messages?	Subpart Reporting
	Subpart A—General Information	<a href="#">View Messages</a>	<a href="#">OPEN</a>
	Subpart OO—Suppliers of Industrial GHGs	<a href="#">View Messages</a>	<a href="#">OPEN</a>

[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](#)

CO<sub>2</sub> equivalent emissions (excluding biogenic) from subparts C - HH (metric tons) 0.0

Biogenic CO<sub>2</sub> emissions from subparts C - HH (metric tons) 0.0

CO<sub>2</sub> equivalent quantity from supplier categories (metric tons) 0.0

[VIEW GHG DETAILS](#)

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To add a new subpart, click the “Add or Remove Subpart” hyperlink.

Every reporter must report under Subpart A.

**Adding Subpart QQ**

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

OO-Supplier 1  
**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)
- N—Glass Production  
Description (SHOW|HIDE)
- 0—HCFC-22 Production and HFC  
Description (SHOW|HIDE)
- P—Hydrogen Production  
Description (SHOW|HIDE)
- SS—Electrical Equipment Manufacturer or Refurbishment  
Description (SHOW|HIDE)
- UU—Injection of Carbon Dioxide  
Description (SHOW|HIDE)

**GENERAL STATIONARY FUEL COMBUSTION**

- C—General Stationary Fuel Combustion (Standard Reporting)  
Description (SHOW|HIDE)
- PP—Suppliers of Carbon Dioxide  
Description (SHOW|HIDE)
- QQ—Importers and Exporters of Fluorinated Greenhouse Gases Contained in Pre-Charged Equipment or Closed-Cell Foams**  
Description (SHOW|HIDE)

CANCEL SAVE

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

# Reporting Data – Opening Subpart QQ Webform



**00-Supplier 1**  
**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)

**REPORT DATA**

2011 Reporting Source or Supplier Category	Validation Messages?	Subpart Reporting
Subpart A—General Information	View Messages	<a href="#">OPEN</a>
Subpart OO—Suppliers of Industrial GHGs	View Messages	<a href="#">OPEN</a>
Subpart QQ—Importers and Exporters of Fluorinated Greenhouse Gases Contained in Pre-Charged Equipment or Closed-Cell Foams	None	<a href="#">OPEN</a>

ADD or REMOVE Suppliers

Check to make sure the correct Subpart was added, then select “Open” to report data.

**Subpart QQ: Importers and Exporters of Fluorinated Greenhouse Gases Contained in Pre-Charged Equipment or Closed-Cell Foams (2011)**

**OVERVIEW OF SUBPART QQ REPORTING REQUIREMENTS**  
 Subpart QQ consists of any entity that imports or exports pre-charged equipment that contains a fluorinated greenhouse gas (F-GHG), and any entity that imports or exports closed-cell foams that contain a fluorinated GHG. Use this page to identify pre-charged electrical equipment, appliances, and foam types imported and exported - and the F-GHGs they contain. For additional information about Subpart QQ reporting, please use the e-GGRT Help link(s) provided.

**IMPORT SUMMARY**

**APPLIANCES AND ELECTRICAL EQUIPMENT**

Name ID	F-GHG Name	Charge size (kg)	Status	Delete
ADD an Appliance or Electrical Equipment Import				

**FOAM NOT IN APPLIANCES**

Name ID	F-GHG Name	Density of F-GHG(s) (kg/cu. foot)	Status	Delete
ADD a Foam Import				

**EXPORT SUMMARY**

**APPLIANCES OR ELECTRICAL EQUIPMENT**

Name ID	F-GHG Name	Charge size (kg)	Status	Delete
ADD an Appliance or Electrical Equipment Export				

**FOAM NOT IN APPLIANCES**

Name ID	F-GHG Name	Density of F-GHG(s) (kg/cu. foot)	Status	Delete
ADD a Foam Export				

Subpart QQ uses a web-based form. Thus, companies can report their data by entering information directly into e-GGRT.

Up to four categories of data must be reported under Subpart QQ.

Importers who meet the 25,000 mt CO<sub>2</sub>e threshold must report:

- 1) Imports of all appliances or electrical equipment containing a fluorinated GHG (F-GHG) as a refrigerant or electrical insulator. Any foam included within the appliance is reported here too.
- 2) Imports of all other closed-cell foam containing a fluorinated GHG (except packaging foam).

Exporters who meet the threshold must report similar information as shown in arrows 3 and 4.

Imports and exports of pre-charged equipment or closed-cell foams imported or exported inside appliances are reported using one webform, while imports and exports of closed-cell foam not contained within appliances are reported using a different webform.

# Add Appliance or Equipment Type 1



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**00-Supplier 1**

### Subpart 00: Importers and Exporters of Fluorinated Greenhouse Gases Contained in Pre-Charged Equipment or Closed-Cell Foams (2011)

[Subpart Overview](#)

**OVERVIEW OF SUBPART 00 REPORTING REQUIREMENTS**

Subpart 00 consists of any entity that imports or exports pre-charged equipment that contains a fluorinated greenhouse gas (F-GHG), and any entity that imports or exports closed-cell foams that contain a fluorinated GHG. Use this page to identify pre-charged electrical equipment, appliances, and foam types imported and exported - and the F-GHGs they contain. For additional information about Subpart 00 reporting, please use the e-GGRT Help link(s) provided.

**Subpart 00: View Validation**

**IMPORT SUMMARY**

**APPLIANCES AND ELECTRICAL EQUIPMENT**

NameID	F-GHG Name	Charge size (kg)	Status <sup>1</sup>	Delete
<a href="#">ADD an Appliance or Electrical Equipment Import</a>				

**FOAM NOT IN APPLIANCES**

NameID	F-GHG Name	Density of F-GHG(s) (kg/cubic foot)	Status <sup>1</sup>	Delete
<a href="#">ADD a Foam Import</a>				

**EXPORT SUMMARY**

**APPLIANCES OR ELECTRICAL EQUIPMENT**

NameID	F-GHG Name	Charge size (kg)	Status <sup>1</sup>	Delete
<a href="#">ADD an Appliance or Electrical Equipment Export</a>				

**FOAM NOT IN APPLIANCES**

NameID	F-GHG Name	Density of F-GHG(s) (kg/cubic foot)	Status <sup>1</sup>	Delete
<a href="#">ADD a Foam Export</a>				

[Facility Overview](#) [Subpart Summary](#)

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To add an appliance or equipment type, click the “Add an Appliance and Electrical Equipment Import” or “Add an Appliance and Electrical Equipment Export” hyperlink.



**Add Appliance or Equipment Type 2**

UNIT INFORMATION

Name or ID \* Refrigerator1 (40 characters maximum)

Description (optional)

Type \* Refrigerated Appliances

Is the appliance or electrical equipment type imported or exported? \*  Imported  Exported

Date on which the appliance or electrical equipment type was imported/exported \* 01/20/2011

Number of pieces of this appliance or electrical equipment type imported or exported \* 1000

Percentage of holding size \* 0.3 (Maximum value of equipment)

Does the appliance or electrical equipment contain foam with F-GHG's? \*  Yes  No

F-GHG CONTAINED IN EQUIPMENT

F-GHG	Mass (g) per piece of equipment	Composition of F-GHG	Delete
+	ADD a Greenhouse Gas		

F-GHG CONTAINED IN FOAM IN EQUIPMENT

F-GHG	Mass (g) per piece of equipment	Delete
+	ADD a F-GHG in Foam	

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Companies must identify the following for each type of equipment with a different f-GHG or a different charge type:

- 1) A unique name or ID of your choice -- this could be the model number but note that if you both import and export the same model number, you will need a different name, for example Refrigerator1-I and Refrigerator1-E;
- 2) The type or category of the equipment -- these are broad but you can use the description if you wish to keep track of additional detail; currently there are several types covering appliances (Window units, PTACs, motor vehicle ACs, Residential & Commercial AC, Dehumidifiers, Refrigerated Appliances [i.e., refrigerator-freezers], retail food appliances, ice makers and other appliances). There are also several covering electrical equipment (circuit breakers, gas-insulated substations, gas-insulated lines, power transformers and other switchgear).
- 3) Whether this particular equipment was imported or exported -- you will have to enter two records if you both import and export equipment;
- 4) The number of pieces of equipment that is imported or exported;
- 5) The date(s) on which the equipment was imported or exported;
- 6) The total charge or holding size of each unit; and
- 7) Whether the appliance also contains a foam with f-GHGs.

Next, click on "ADD a Greenhouse Gas" to indicate the type of fluorinated GHG(s) contained in each piece of equipment and in the foam (if applicable).

# Add a Fluorinated GHG 1



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OO-Supplier 1  
**Subpart QQ: Importers and Exporters of Fluorinated Greenhouse Gases Contained in Pre-Charged Equipment or Closed-Cell Foams (2011)**  
Subpart Overview » [Select a GHG](#)

**SELECT A GHG** \* denotes a required field

Please select a GHG from the list. If you need to identify a GHG that is not listed in the table below, use the "ADD an Unlisted Greenhouse Gas" link and you will be prompted to identify the gas by name and CAS number and it will be added to the list. If you do not know the GHG contained in the pre-charged equipment or closed cell foam, use the "ADD an Unknown Greenhouse Gas" link.

GREENHOUSE GAS	GHG Name	CAS Number	Chemical Formula	GWP
<input type="checkbox"/>	Unknown Gas		Unknown Gas	0
<input type="checkbox"/>	(Octafluorotetramethyl-hydroxymethyl group)	NA	X(CF2MCH(OH)-X	73
<input type="checkbox"/>	2,2,3,3,3-pentafluoropropanol	422-05-0	CF3CF2CH2OH	42
<input type="checkbox"/>	Bis(trifluoromethyl)-methanol	920-66-1	(CF3)2CHOH	195
<input type="checkbox"/>	Desflurane (HFE-236ea2)	57041-67-6	CHF2OCHF3	689
<input type="checkbox"/>	HFC-12345	111-11-1	CHF2CHFCH3	0
<input type="checkbox"/>	HFC-12345	111-11-1	CHF2CHFCH3	0
<input type="checkbox"/>	HFC-125	364-33-6	C2HF5	2800
<input type="checkbox"/>	HFC-134	369-35-3	C2HF4	1000
<input checked="" type="checkbox"/>	HFC-134a	811-97-2	CH2FCF3	1300
<input type="checkbox"/>	HFC-143	430-66-0	C2HF3	300
<input type="checkbox"/>	HFC-143a	420-66-2	C2HF3	3800
<input type="checkbox"/>	HFC-152	624-72-6	CH2FCH2F	53
<input type="checkbox"/>	HFC-152a			
<input type="checkbox"/>	HFC-161			
<input type="checkbox"/>	The fluorinated ketone			
<input type="checkbox"/>	Trifluoromethyl sulphur pentafluoride			
<input type="checkbox"/>	ADD an Unlisted Greenhouse Gas			
<input type="checkbox"/>	ADD a Blend			

**1** →

← **2**

**CANCEL SAVE**

**Note: The "ADD a Blend" link is not currently working. We plan to have it functional by August for actual reporting.**

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Select the GHG that is contained in the equipment from the list provided and click save (at the bottom of the table). You may only select one GHG at a time and the process can be repeated for additional GHGs.

**Add a Fluorinated GHG 2**

**Note: Currently the system requires the mass percentage of each F-GHG you pick. Since many reporters will have just one F-GHG for any individual piece of equipment, we are considering eliminating this item.**

Once you select a listed fluorinated GHG, the next screen will request the composition of the F-GHG you just selected – how much of the entire charge or holding charge is made up by this particular GHG. Once you enter that item, the mass of the fluorinated GHG will be automatically generated. Check to make sure that the quantity in kilograms is correct and click “Save.”

**Add a Fluorinated GHG 3**

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

OO-Subpart 1  
**Subpart OO: Importers and Exporters of Fluorinated Greenhouse Gases Contained in Pre-Charged Equipment or Closed-Cell Foams (2011)**  
 Subpart Overview » [Add or Edit Appliance or Electrical Equipment Type](#)

ADD OR EDIT APPLIANCE OR ELECTRICAL EQUIPMENT TYPE \* denotes a required field

Use this page to identify and define an appliance or electrical equipment type with a unique combination of charge size and type. Once you have identified an appliance or electrical equipment type with a unique combination of charge size and type identify each f-GHG contained within the appliance or electrical equipment using the "ADD a Greenhouse Gas" link. For additional information about adding and editing a subpart OO appliance or electrical equipment type, please use the e-GGRT Help (1960).

UNIT INFORMATION

Name or ID  (40 characters maximum)

Description (optional)

Type

Is the appliance or electrical equipment type imported or exported?  Imported  Exported

Date(s) on which the appliance or electrical equipment type was imported or exported?   
Enter date in MM/DD/YYYY format. If there are multiple dates to report, separate each with a comma (e.g., 01/15/2011, 06/15/2011a).

Number of pieces of this appliance or electrical equipment type imported or exported

Total charge or holding size  (kg. per piece of equipment)

Does the appliance or electrical equipment contain foam with f-GHGs?  Yes  No

F-GHGS CONTAINED IN EQUIPMENT

F-GHG	Mass (kg per piece of equipment)	Composition of F-GHG	Delete
HFC-134a	0.12	0.4	<span style="border: 1px solid red; border-radius: 50%; padding: 2px;">OPEN</span>
<a href="#">Add a Greenhouse Gas</a>			

F-GHGS CONTAINED IN FOAM IN EQUIPMENT

[Add a f-GHG in Foam](#)

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After selecting “Save”, the e-GGRT system will return you to the “Add or Edit Appliance or Equipment Type” Page where you can see the gas, the mass in kilograms, and the composition of f-GHG. To edit the composition of the f-GHG you entered, click “Open” to edit this amount.

Repeat this process for each Greenhouse Gas contained in the equipment by clicking the “Add a Greenhouse Gas” hyperlink again. For example, if you were using a 40/60 (by mass) blend of HFC-134a and HFO-1234yf, because that blend is not on the list that will be added later, you would need to add each component separately.

# Add a Fluorinated GHG (not on the list) 4



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00-Supplier 1

**Subpart QQ: Importers and Exporters of Fluorinated Greenhouse Gases Contained in Pre-Charged Equipment or Closed-Cell Foams (2011)**

Subpart Overview » Select a GHG

**SELECT A GHG**

Please select a GHG from the list. If you need to identify a GHG that is not listed in the table below, use the "ADD an Unlisted Greenhouse Gas" link and you will be prompted to identify the gas by name and CAS number and it will be added to the list. If you do not know the GHG contained in the pre-charged equipment or closed cell foam, use the "ADD an Unknown Greenhouse Gas" link.

\* denotes a required field

**SELECT A GREENHOUSE GAS**

Select	GHG Name	CAS Number	Chemical Formula	GWP
<input type="checkbox"/>	Unknown Gas		Unknown Gas	0
<input type="checkbox"/>	(Octafluorotetramethyl-hydroxymethyl) group	NA	X:CF <sub>2</sub> M(CH <sub>2</sub> O) <sub>n</sub> X	73
<input type="checkbox"/>	2,2,3,3,3-pentafluoropropane	422-05-9	CF <sub>3</sub> CF <sub>2</sub> CF <sub>2</sub> OH	42
<input type="checkbox"/>	Bis(difluoromethyl)-methanol	320-66-1	(CF <sub>2</sub> ) <sub>2</sub> CHOH	195
<input type="checkbox"/>	Desflurane (HFE-236a2)	57041-67-5	CHF <sub>2</sub> OCHF <sub>2</sub> CF <sub>3</sub>	989
<input type="checkbox"/>	PFC-218 (Perfluoropropane)	76-19-7	C <sub>3</sub> F <sub>8</sub>	7000
<input type="checkbox"/>	PFC-3-1-10 (Perfluorobutane)	355-25-9	C <sub>4</sub> F <sub>10</sub>	7000
<input type="checkbox"/>	PFC-4-1-12 (Perfluoropentane)	678-26-2	C <sub>5</sub> F <sub>12</sub>	7500
<input type="checkbox"/>	PFC-5-1-14 (Perfluorohexane)	355-42-0	C <sub>6</sub> F <sub>14</sub>	7400
<input type="checkbox"/>	PFC-5-1-18	335-94-5	C <sub>6</sub> F <sub>18</sub>	7500
<input type="checkbox"/>	PFPMIE	NA	CF <sub>3</sub> OCF <sub>2</sub> (CF <sub>3</sub> )CF <sub>2</sub> OCF <sub>2</sub> OCF <sub>3</sub>	10300
<input type="checkbox"/>	Perfluorocyclobutane	115-25-3	C <sub>4</sub> F <sub>8</sub>	8700
<input type="checkbox"/>	Perfluorocyclopropane	931-91-9	C <sub>3</sub> F <sub>6</sub>	17340
<input type="checkbox"/>	Sivoflurane	28523-86-6	CHF <sub>2</sub> OCF <sub>2</sub> CF <sub>3</sub>	345
<input type="checkbox"/>	Sulfur hexafluoride	3551-62-4	SF <sub>6</sub>	23800
<input type="checkbox"/>	The fluorinated ketone		FK-5-112	0
<input type="checkbox"/>	Trifluoromethyl-methyl-methyl-sulfonate	373-80-8	SF <sub>5</sub> CF <sub>3</sub>	17700
<input checked="" type="checkbox"/>	<a href="#">ADD an Unlisted Greenhouse Gas</a>			
<input type="checkbox"/>	<a href="#">ADD a Blend</a>			

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If the equipment contains a GHG that is not listed in the table, there is an opportunity to include it by clicking on the hyperlink at the bottom of the table, "Add an Unlisted Greenhouse Gas."

**Add a Fluorinated GHG (not on the list) 5**

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**Subpart QQ: Importers and Exporters of Fluorinated Greenhouse Gases Contained in Pre-Charged Equipment or Closed-Cell Foams (2011)**

Subpart Overview • [Select a GHG](#)

**SELECT A GHG**  
Please identify the GHG by specifying its name and Chemical Abstracts Service (CAS) Number. In addition, please provide a description of the chemical formula (e.g., CH<sub>2</sub>CF<sub>3</sub>).

**GREENHOUSE GAS**

GHG Name\* HFO-1234yf  
CAS Number\* 754-12-1  
Chemical Formula CH<sub>2</sub>=CF<sub>3</sub>

**Subpart QQ: Importers and Exporters of Fluorinated Greenhouse Gases Contained in Pre-Charged Equipment or Closed-Cell Foams (2011)**

Subpart Overview • [GHG Details in Appliance or Electrical Equipment](#)

**GHG DETAILS IN APPLIANCE OR ELECTRICAL EQUIPMENT**  
For the selected GHG, please provide the charge or holding size in kilograms for each appliance or piece of equipment.

**GREENHOUSE GAS DETAILS**

GHG Name HFO-1234yf  
CAS Number 754-12-1  
Chemical Formula CH<sub>2</sub>=CF<sub>3</sub>  
GWP 0


Total Charge or Holding 0.3 (kg)

Composition of f-GHG\* 0.6 (mass fraction, 0 ≤ x ≤ 1)

Mass of f-GHG per piece of Equipment/Appliance 0.18 (kg)

Enter the GHG name, CAS Number, and optional Chemical Formula for each gas that needs to be added to the GHG Data table. After clicking “Save,” the next screen will request the composition of the f-GHG you just added. After clicking “Save” again, the e-GGRT system will return you to the Add or Edit Appliance or Equipment Type Page.

## Add a Fluorinated GHG 6



Name or ID \* Refrigerator1 (40 characters maximum)

Description (optional)

Type \* Refrigerated Appliances

Is the appliance or electrical equipment type imported or exported?  Imported  Exported

Date(s) on which the appliance or electrical equipment type was imported or exported   
Enter date in MM/DD/YYYY format. If there are multiple dates to report, separate each with a comma (e.g., 001/15/2011, 05/16/2011D).

Number of pieces of this appliance or electrical equipment type imported or exported

Total charge or holding size \*  (kg. per piece of equipment)

Does the appliance or electrical equipment contain foam with f-GHG?  Yes  No

**F-GHGS CONTAINED IN EQUIPMENT**

F-GHG	Mass (kg per piece of equipment)	Composition of f-GHG	Delete
HFO-1234yf	0.18	0.6	OPEN ✖
HFC-134a	0.12	0.4	OPEN ✖

[ADD a Greenhouse Gas](#)

**F-GHGS CONTAINED IN FOAM IN EQUIPMENT**


F-GHG	Mass (kg per piece of equipment)	Delete
<a href="#">ADD a f-GHG in Foam</a>		


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Also, companies must report for each foam type in appliances with a different f-GHG or a different amount in the foam.


If you indicated that the appliance also contains a foam with f-GHGs, click on the “ADD a f-GHG in Foam” hyperlink.

# Add a Fluorinated GHG 7





United States Environmental Protection Agency



Electronic Greenhouse Gas Reporting Tool

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e-GGRT Help
OO-Supplier 1

**Subpart QQ: Importers and Exporters of Fluorinated Greenhouse Gases Contained in Pre-Charged Equipment or Closed-Cell Foams (2011)**

Subpart Overview » [Select a GHG](#)

**SELECT A GHG** \* denotes a required field

Please select a GHG from the list. If you need to identify a GHG that is not listed in the table below, use the "ADD an Unlisted Greenhouse Gas" link and you will be prompted to identify the gas by name and CAS number and it will be added to the list. If you do not know the GHG contained in the pre-charged equipment or closed cell foam, use the "ADD an Unknown Greenhouse Gas" link.

**SELECT A GREENHOUSE GAS**

Select	GHG Name	CAS Number	Chemical Formula	GWP
<input type="radio"/>	Unknown Gas		Unknown Gas	0
<input type="radio"/>	(Octafluorotetramethylene)hydroxymethyl group	NA	X <sub>1</sub> (CF <sub>2</sub> CH(OH))X	73
<input type="radio"/>	2,2,3,3,3-pentafluoropropanol	422-05-9	CF <sub>3</sub> CF <sub>2</sub> CH <sub>2</sub> OH	42
<input type="radio"/>	Bis(trifluoromethyl)-methanol	920-66-1	(CF <sub>3</sub> ) <sub>2</sub> CHOH	196
<input type="radio"/>	Desflurane (HFE-236ea2)	57041-67-5	CHF <sub>2</sub> OCHF <sub>2</sub> CF <sub>3</sub>	989
<input type="radio"/>	HFC-236ea	431-63-0	CHF <sub>2</sub> CHF <sub>2</sub> CF <sub>3</sub>	1370
<input type="radio"/>	HFC-236fa	690-39-1	C <sub>3</sub> H <sub>2</sub> F <sub>6</sub>	6300
<input type="radio"/>	HFC-245ca	679-86-7	C <sub>3</sub> H <sub>3</sub> F <sub>5</sub>	560
<input type="radio"/>	HFC-245fa	460-73-1	CHF <sub>2</sub> CH <sub>2</sub> CF <sub>3</sub>	1030
<input type="radio"/>	HFC-32	75-10-5	CH <sub>2</sub> F <sub>2</sub>	650
<input type="radio"/>	Trifluoromethyl sulphur pentafluoride	373-80-8	SF <sub>5</sub> CF <sub>3</sub>	17700

[ADD an Unlisted Greenhouse Gas](#)

[ADD a Blend](#)

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Select the GHG that is contained in the foam from the list provided and click save (at the bottom of the table). You may only select one GHG at a time and the process can be repeated for additional GHGs.

As was the case with the refrigerant or gas insulator, if a foam contains a GHG that is not listed in the table, there is an opportunity to include it by clicking the hyperlink, "Add an Unlisted Greenhouse Gas".



**Add a Fluorinated GHG 8**

The screenshot shows the EPA e-GGRT interface. At the top, there is a blue header with the text "Add a Fluorinated GHG 8" and the EPA logo. Below the header, the main content area is titled "OO-Supplier 1" and "Subpart QQ: Importers and Exporters of Fluorinated Greenhouse Gases Contained in Pre-Charged Equipment or Closed-Cell Foams (2011)". The "GHG DETAILS IN EQUIPMENT" section contains the following information:

GREENHOUSE GAS DETAILS	
GHG Name	HFC-245fa
CAS Number	460-73-1
Chemical Formula	CHF2CH2CF3
GWP	1030
Mass of f-GHG in foam in * each piece of Equipment/Appliance	0.5 (kg)

At the bottom of the form, there are "CANCEL" and "SAVE" buttons. A red arrow points to the "SAVE" button.

Once you select a listed fluorinated GHG, the next screen will request the mass of the f-GHG in the foam in each piece of equipment. Indicated the quantity in kilograms and click "Save".

## Add a Fluorinated GHG 9



UNIT INFORMATION

Name or ID \* Refrigerator1 (40 characters maximum)

Description (optional)

Type \* Refrigerated Appliances

Is the appliance or electrical equipment type imported or exported?  Imported  Exported

Date(s) on which the appliance or electrical equipment type was imported or exported \* 01/20/2011  
Enter date in MM/DD/YYYY format. If there are multiple dates to report, separate each with a comma (e.g., 001/16/2011, 08/16/2011D).

Number of pieces of this appliance or electrical equipment type imported or exported \* 1000

Total charge or holding size \* 0.3 (kg. per piece of equipment)

Does the appliance or electrical equipment contain foam with F-GHGs?  Yes  No

F-GHGS CONTAINED IN EQUIPMENT

F-GHG	Mass (kg per piece of equipment)	Composition of F-GHG	OPEN	Delete
HFC-1234yf	0.18	0.6	OPEN	Delete
HFC-134a	0.12	0.4	OPEN	Delete

ADD a Greenhouse Gas

F-GHGS CONTAINED IN FOAM IN EQUIPMENT

F-GHG	Mass (kg per piece of equipment)	Delete	
HFC-245fa	0.5	OPEN	Delete

ADD a F-GHG in Foam

CANCEL SAVE

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Once you have completed entering all GHG data, you can review your entries for accuracy.

- If you need to change the Mass, click “Open.”
- If you need to delete an entry, click “Delete.”
- If you need to add more, simply repeat the steps you just took by clicking the “Add” button again.
- If the information is correct, click “Save.”

# Add or Edit Appliance or Equipment Type



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## Subpart QQ: Importers and Exporters of Fluorinated Greenhouse Gases Contained in Pre-Charged Equipment or Closed-Cell Foams (2011)

[Subpart Overview](#)

**OVERVIEW OF SUBPART QQ REPORTING REQUIREMENTS**  
Subpart QQ consists of any entity that imports or exports pre-charged equipment that contains a fluorinated greenhouse gas (F-GHG), and any entity that imports or exports closed-cell foams that contain a fluorinated GHG. Use this page to identify pre-charged electrical equipment, appliances, and foam types imported and exported - and the F-GHGs they contain. For additional information about Subpart QQ reporting, please use the e-PORT Help link(s) provided.

**Subpart QQ: View Validation**

**IMPORT SUMMARY**

**APPLIANCES AND ELECTRICAL EQUIPMENT**

Name/ID	F-GHG Name	Charge size (kg)	Status <sup>1</sup>	Delete
Refrigerator1	HFC-1234yf, HFC-134a, HFC-240fa	0.3	Complete	
CircuitBreaker1	Sulfur hexafluoride	11.2	Complete	

[ADD an Appliance or Electrical Equipment Import](#)

**FOAM NOT IN APPLIANCES**

Name/ID	F-GHG Name	Density of F-GHG(s) (kg/cubic feet)	Status <sup>1</sup>	Delete
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[ADD a Foam Import](#)

**EXPORT SUMMARY**

**APPLIANCES OR ELECTRICAL EQUIPMENT**

Name/ID	F-GHG Name	Charge size (kg)	Status <sup>1</sup>	Delete
AirConditioner1	HFC-125, HFC-134a, HFC-32	0.2	Complete	

[ADD an Appliance or Electrical Equipment Export](#)

**FOAM NOT IN APPLIANCES**

Name/ID	F-GHG Name	Density of F-GHG(s) (kg/cubic feet)	Status <sup>1</sup>	Delete
---------	------------	-------------------------------------	---------------------	--------

[ADD a Foam Export](#)

[Facility Overview](#) [Subpart Summary](#)

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Repeat this process for each combination of equipment-chemical-charge/holding size imported and each combination exported. Make sure you correctly select “Imported” or “Exported” when adding a new Appliance or Equipment Type. If you need to edit information for an equipment type that has already been entered, select the equipment’s unique name/ID. If you need to delete an entry, click “Delete.”

## Reporting Foam Imports and Exports



- Two types of closed-cell foams
  - Inside appliances (reported by mass per appliance)
  - Everything else (reported by density and cubic feet)
- If the identity and mass of the F-GHG is not known
  - Report by CO<sub>2</sub>e (for foams in appliances) or CO<sub>2</sub>e per cubic feet
  - Certify that you were unable to obtain the identity and mass information from the foam manufacturer
- Packaging foam excluded

**Note: Currently the system does not allow you to certify that you do not know the identity and mass of the fluorinated GHG in the foam. This feature will be added shortly.**

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# Add a Foam Type 1



OO-Supplier 1

## Subpart QQ: Importers and Exporters of Fluorinated Greenhouse Gases Contained in Pre-Charged Equipment or Closed-Cell Foams (2011)

[Subpart Overview](#)

**OVERVIEW OF SUBPART QQ REPORTING REQUIREMENTS**  
Subpart QQ consists of any entity that imports or exports pre-charged equipment that contains a fluorinated greenhouse gas (F-GHG), and any entity that imports or exports closed-cell foams that contain a fluorinated GHG. Use this page to identify pre-charged electrical equipment, appliances, and foam types imported and exported - and the F-GHGs they contain. For additional information about Subpart QQ reporting, please use the e-GRRT Help link(s) provided.

**Subpart QQ: View Validation**

**IMPORT SUMMARY**

**APPLIANCES AND ELECTRICAL EQUIPMENT**

Name/ID	F-GHG Name	Charge size (g)	Status <sup>1</sup>	Delete
Refrigerator1	HFC-1234yf, HFC-134a, HFC-245fa	0.3	Complete	
CircuitBreaker1	Sulfur hexafluoride	11.2	Complete	

[ADD an Appliance or Electrical Equipment Import](#)

**FOAM NOT IN APPLIANCES**

Name/ID	F-GHG Name	Density of F-GHG(s) (g/cubic foot)	Status <sup>1</sup>	Delete
<a href="#">ADD a Foam Import</a>				

**EXPORT SUMMARY**

**APPLIANCES OR ELECTRICAL EQUIPMENT**

Name/ID	F-GHG Name	Charge size (g)	Status <sup>1</sup>	Delete
AirConditioner1	HFC-125, HFC-134a, HFC-32	0.2	Complete	

[ADD an Appliance or Electrical Equipment Export](#)

**FOAM NOT IN APPLIANCES**

Name/ID	F-GHG Name	Density of F-GHG(s) (g/cubic foot)	Status <sup>1</sup>	Delete
<a href="#">ADD a Foam Export</a>				

[Facility Overview](#) [Subpart Summary](#)

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To add a foam type, click the “Add a Foam Import” or “Add a Foam Export” hyperlink.

**Add a Foam Type 2**

00-Supplier 1  
**Subpart 00: Importers and Exporters of Fluorinated Greenhouse Gases Contained in Pre-Charged Equipment or Closed-Cell Foams (2011)**  
 Subpart Overview » Add or Edit Foam Type

**ADD OR EDIT FOAM TYPE** \* denotes a required field

Use this page to identify and define a closed-cell foam type with a unique combination of fluorinated GHG density and identity. Once you have identified a closed-cell foam type with a unique combination of fluorinated GHG density and identity, identify each f-GHG contained within the closed-cell foam type using the "ADD a Greenhouse Gas" link. For additional information about adding and editing a subpart 00 closed-cell foam type, please use the e-GGRT Help link(s).

**UNIT INFORMATION**

Name of ID \* Foamboard1 (40 characters maximum)

Description (optional)

Type \* Extruded Polystyrene (XPS) Boardstock or Sheet Foam

Is the foam type imported or \* Imported  
 exported?  Imported  
 Exported

Date(s) on which the foam type \* 02/15/2011,08/09/2011  
 was imported or exported  
 Enter date in MM/DD/YYYY format. If there are multiple dates to report, separate each with a comma (e.g., 00/15/2011, 06/16/2010).

Total volume of foam imported \* 200 (cubic feet)  
 or exported

Mass of f-GHG(s) per cubic foot \* 0.5 (kg/cu ft)  
 of foam

**F-GHGS CONTAINED IN FOAM**

F-GHG	Mass (kg/cu ft of foam)	Composition of f-GHG	Delete
+ ADD a Greenhouse Gas			

CANCEL SAVE

Companies must identify the following for each foam not inside appliances with a different f-GHG or a different density:

- 1) A unique name or ID of your choice
- 2) The type or category of the foam – the types are Extruded Polystyrene (XPS), Polyurethane (PU) or other.
- 3) Whether this particular foam was imported or exported;
- 4) The date(s) on which the foam was imported or exported; and
- 5) The total volume of foam imported or exported (cubic feet).

The screenshot here requests (in the 6<sup>th</sup> green oval from the top) the “Mass of f-GHG(s) per cubic foot of foam.” EPA has determined that if more than one f-GHG is contained in foam, the mass per cubic foot (i.e., density) of each f-GHG may be different. Therefore, in the e-GGRT version used for Sandbox testing, this data element was reported elsewhere.

Next, click on “ADD a Greenhouse Gas” to indicate the type of fluorinated GHG(s) contained within the foam.

# Add a Fluorinated GHG 1



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

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**Support Q0: Importers and Exporters of Fluorinated Greenhouse Gases Contained in Pre-Charged Equipment or Closed-Cell Foams (2011)**

Support Overview [Select a GHG](#)

**SELECT A GHG**

Please select a GHG from the list. If you need to identify a GHG that is not listed in the table below, use the "ADD an Unlisted Greenhouse Gas" link and you will be prompted to identify the gas by name and CAS number and it will be added to the list. If you do not know the GHG contained in the pre-charged equipment or closed cell foam, use the "ADD an Unknown Greenhouse Gas" link.

\* denotes a required field

**SELECT A GREENHOUSE GAS**

Select	GHG Name	CAS Number	Chemical Formula	GWP
<input type="checkbox"/>	Unknown Gas		Unknown Gas	0
<input type="checkbox"/>	(Octafluorotetramethyl-ene)hydroxymethyl group	NA	$X_4(CF_2)4CH(OH)X$	73
<input type="checkbox"/>	2,2,3,3-tetrafluoropropanol	422-05-0	CF <sub>3</sub> CF <sub>2</sub> CH <sub>2</sub> OH	42
<input type="checkbox"/>	Bis(trifluoromethyl)methanol	920-66-1	(CF <sub>3</sub> ) <sub>2</sub> CHOH	195
<input type="checkbox"/>	Desflurane (HFE-236a2)	57041-07-5	CHF <sub>2</sub> OCHF <sub>2</sub>	989
<input type="checkbox"/>	HFC-236ea	431-63-0	CHF <sub>2</sub> CHF <sub>2</sub>	1370
<input type="checkbox"/>	HFC-236fa	690-39-1	C <sub>3</sub> H <sub>2</sub> F <sub>6</sub>	6300
<input type="checkbox"/>	HFC-245ea	678-86-7	C <sub>3</sub> H <sub>3</sub> F <sub>5</sub>	580
<input checked="" type="checkbox"/>	HFC-245fa	460-73-1	CHF <sub>2</sub> CH <sub>2</sub> CF <sub>3</sub>	1030
<input type="checkbox"/>	HFC-32	75-		
<input type="checkbox"/>	The fluorinated ketone			
<input type="checkbox"/>	Trifluoromethyl sulphur pentafluoride	373		

[ADD an Unlisted Greenhouse Gas](#)

[ADD a Blend](#)


**Note: The "ADD a Blend" link is not currently working. We plan to have it functional by August for actual reporting.**


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Similar to the process for selecting each GHG contained in equipment, select the GHG that is contained in the foam from the list provided and click save (at the bottom of the table). You may only select one GHG at a time and the process can be repeated for additional GHGs.


As was the case with pre-charged equipment, if a foam contains a f-GHG that is not listed in the table, there is an opportunity to include it by clicking the hyperlink, "Add an Unlisted Greenhouse Gas".

# Add a Fluorinated GHG 2





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**OO-Supplier 1**  
**Subpart QQ: Importers and Exporters of Fluorinated Greenhouse Gases Contained in Pre-Charged Equipment or Closed-Cell Foams (2011)**  
[Subpart Overview](#) » [GHG Details in Closed-Cell Foams](#)

**GHG DETAILS IN CLOSED-CELL FOAMS**  
 For the selected GHG, please provide the density of the f-GHG in the foam in kilograms per cubic foot of foam. e-GGRT will multiply the density provided with the volume of the foam previously reported and calculate the mass (in kilograms) of the f-GHG.

GREENHOUSE GAS DETAILS	
GHG Name	HFC-245fa
CAS Number	460-73-1
Chemical Formula	CHF2CH2CF3
GWP	1030
Total volume of foam imported or exported	200 (cubic feet)
Mass of f-GHG(s) per cubic foot of foam	0.5 (kg/ou ft)
Composition of f-GHG in foam	1 (mass fraction, 0 ≤ x ≤ 1)
Mass of each f-GHG per cubic foot of foam	0.5 (kg/ou ft)

**← CHECK**

**← SAVE**

**Note: Currently the system requires the mass percentage of each F-GHG you pick. Since many reporters will have just one F-GHG for any individual piece of equipment, we are considering eliminating this item.**

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Once you select a listed fluorinated GHG, the next screen will request the mass of the fluorinated GHG per cubic foot of foam. Once you enter that, click “Save.”

Note: the “mass of f-GHG(s) per cubic foot of foam” and “Composition of f-GHG in foam” have been removed. Instead, you will be asked to enter the density (mass per cubic foot) of this particular f-GHG within the foam. In this example, you would enter the 0.5 kg/cubic feet on this screen.



## Add a Fluorinated GHG 3



00-Supplier 1

**Subpart QQ: Importers and Exporters of Fluorinated Greenhouse Gases Contained in Pre-Charged Equipment or Closed-Cell Foams (2011)**

[Subpart Overview](#) > [Add or Edit Foam Type](#)

**ADD OR EDIT FOAM TYPE** \* denotes a required field

Use this page to identify and define a closed-cell foam type with a unique combination of fluorinated GHG density and identity. Once you have identified a closed-cell foam type with a unique combination of fluorinated GHG density and identity, identify each f-GHG contained within the closed-cell foam type using the "ADD a Greenhouse Gas" link. For additional information about adding and editing a subpart QQ closed-cell foam type, please use the e-GGRT Help link(s).

**UNIT INFORMATION**

Name or ID \* Foamboard1 (40 characters maximum)

Description (optional)

Type \* Extruded Polysty

Is the foam type imported or exported?  Imported  Exported

Date(s) on which the foam type \* 02/15/2011 was imported or exported. Enter date in MM/DD with a comma (e.g., 02/15/2011, 06/16/2011D).

Total volume of foam imported or exported \* 200 (cubic feet)

Mass of f-GHG(s) per cubic foot \* 0.5 (kg/cu ft)

**F-GHGS CONTAINED IN FOAM**

F-GHG	Mass (kg/cu ft of foam)	Composition of f-GHG	Delete
HFC-245fa	0.5	1	OPEN X

[ADD a Greenhouse Gas](#)

CANCEL SAVE

**Note: There is currently no option to report in CO2e if you don't know the identity and mass of the GHG in the foam.**

After selecting "Save", the e-GGRT system will return you to the Add or Edit Foam Type Page where you can see the gas, the mass in kilogram per cubic feet, and the composition of the f-GHG. Repeat this process for each Greenhouse Gas contained in the foam by clicking the "Add a Greenhouse Gas" hyperlink again.

Once you have completed entering all GHG data, you can review your entries for accuracy. If the volume is incorrect, click "Open." If you need to delete an entry, click "Delete." If you need to add more, simply repeat the steps you just took by clicking the "Add" button again. If the information is correct, click "Save."

# Add or Edit Equipment or Foam Type



e-GORT Help

00-Supplier 1  
**Subpart QQ: Importers and Exporters of Fluorinated Greenhouse Gases Contained in Pre-Charged Equipment or Closed-Cell Foams (2011)**  
[Subpart Overview](#)

**OVERVIEW OF SUBPART QQ REPORTING REQUIREMENTS**  
Subpart QQ consists of any entity that imports or exports pre-charged equipment that contains a fluorinated greenhouse gas (F-GHG), and any entity that imports or exports closed-cell foams that contain a fluorinated GHG. Use this page to identify pre-charged electrical equipment, appliances, and foam types imported and exported - and the F-GHGs they contain. For additional information about Subpart QQ reporting, please use the e-GORT Help link(s) provided.

**Subpart QQ: View Validation**

**IMPORT SUMMARY**

**APPLIANCES AND ELECTRICAL EQUIPMENT**

Name/ID	F-GHG Name	Charge size (l/g)	Status	Delete
<input type="checkbox"/> Refrigerator1	HFC-1234yf, HFC-245fa, HFC-134a	0.3	Complete	
<input type="checkbox"/> CircuitBreaker1	Sulfur hexafluoride	11.2	Complete	

[ADD an Appliance or Electrical Equipment Import](#)

**FOAM NOT IN APPLIANCES**

Name/ID	F-GHG Name	Density of F-GHG(s) (lb/cubic foot)	Status	Delete
<input type="checkbox"/> Foamboard1	HFC-245fa	0.5	Complete	

[ADD a Foam Import](#)

**EXPORT SUMMARY**

**APPLIANCES OR ELECTRICAL EQUIPMENT**

Name/ID	F-GHG Name	Charge size (l/g)	Status	Delete
<input type="checkbox"/> AirConditioner1	HFC-32, HFC-134a, HFC-125	0.2	Complete	

[ADD an Appliance or Electrical Equipment Export](#)

**FOAM NOT IN APPLIANCES**

Name/ID	F-GHG Name	Density of F-GHG(s) (lb/cubic foot)	Status	Delete
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[ADD a Foam Export](#)

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Once all combinations of foam-chemical-quantity imports and exports are entered, select "Subpart Summary" at the bottom of the Overview Page.

**Subpart Summary**

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**Subpart QQ: Importers and Exporters of Fluorinated Greenhouse Gases Contained in Pre-Charged Equipment or Closed-Cell Foams (2011)**

Subpart Overview » Summary of Imports and Exports of F-GHGs

**SUMMARY OF IMPORTS AND EXPORTS OF F-GHGS**

The tables below summarize the mass of each F-GHG imported and exported. Use the OPEN button provided to review the calculations for each F-GHG.

**IMPORT SUMMARY**

F-GHG Name	Mass (metric tons)	
HFC-134a	0.1200	OPEN
HFC-1234yf	0.1800	OPEN
HFC-245fa	0.6000	OPEN
Sulfur hexafluoride	0.0560	OPEN

**EXPORT SUMMARY**

F-GHG Name	Mass (metric tons)	
HFC-134a	0.0400	OPEN
HFC-125	0.0400	OPEN
HFC-32	0.0200	OPEN

Subpart Overview

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Review data for accuracy. Return to the Subpart Overview Page to add or edit data, as necessary.

You can click OPEN here to see what items are contributing to the total of each individual fluorinated GHG.

# Add or Edit Equipment or Foam Type



00-Supplier 1

### Subpart QQ: Importers and Exporters of Fluorinated Greenhouse Gases Contained in Pre-Charged Equipment or Closed-Cell Foams (2011)

[Subpart Overview](#)

**OVERVIEW OF SUBPART QQ REPORTING REQUIREMENTS**

Subpart QQ consists of any entity that imports or exports pre-charged equipment that contains a fluorinated greenhouse gas (F-GHG), and any entity that imports or exports closed-cell foams that contain a fluorinated GHG. Use this page to identify pre-charged electrical equipment, appliances, and foam types imported and exported - and the F-GHGs they contain. For additional information about Subpart QQ reporting, please use the e-GORT Help link(s) provided.

[Subpart QQ: View Validation](#)

**IMPORT SUMMARY**

**APPLIANCES AND ELECTRICAL EQUIPMENT**

Name/ID	F-GHG Name	Charge size (lb)	Status	Delete
Refrigerator1	HFC-1234y1, HFC-245fa, HFC-134a	0.3	Complete	
CircuitBreaker1	Sulfur hexafluoride	11.2	Complete	

[ADD an Appliance or Electrical Equipment Import](#)

**FOAM NOT IN APPLIANCES**

Name/ID	F-GHG Name	Density of F-GHG(s) (kg/cubic foot)	Status	Delete
Foamboard1	HFC-245fa	0.5	Complete	

[ADD a Foam Import](#)

**EXPORT SUMMARY**

**APPLIANCES OR ELECTRICAL EQUIPMENT**

Name/ID	F-GHG Name	Charge size (lb)	Status	Delete
AirConditioner1	HFC-32, HFC-134a, HFC-125	0.2	Complete	

[ADD an Appliance or Electrical Equipment Export](#)

**FOAM NOT IN APPLIANCES**

Name/ID	F-GHG Name	Density of F-GHG(s) (kg/cubic foot)	Status	Delete
---------	------------	-------------------------------------	--------	--------

[ADD a Foam Export](#)

[Facility Overview](#) | [Subpart Summary](#)

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Then click "Facility Overview" where you will see QQ added to your list of subparts.

**Logging Out**

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HOME FACILITY REGISTRATION FACILITY MANAGEMENT DATA REPORTING

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e-GGRT Help

00-Supplier 1  
**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)

**!** The Annual Report has already been prepared. Any changes you make to report data will not be reflected in that version. After making changes to report data you must choose GENERATE/RESUBMIT below, then click GENERATE REPORT for those changes to be included in an updated version of the Annual Report.

**REPORT DATA**

2011 Reporting Source or Supplier Category	Validation Messages?	Subpart Reporting
Subpart A—General Information	View Messages	OPEN
Subpart DD—Electrical Transmission and Distribution Equipment Use	View Messages	OPEN
Subpart OD—Suppliers of Industrial GHGs	View Messages	OPEN
Subpart OQ—Importers and Exporters of Fluorinated Greenhouse Gases Contained in Pre-Charged Equipment or Closed-Cell Foams	View Messages	OPEN
Subpart UU—Injection of Carbon Dioxide	View Messages	OPEN

ADD or REMOVE Subparts

VIEW GHG DETAILS

CO<sub>2</sub> equivalent emissions (excluding biogenic) from subparts C - HH (metric tons) 0.0

Biogenic CO<sub>2</sub> emissions from subparts C - HH (metric tons) 0.0

CO<sub>2</sub> equivalent quantity from supplier categories (metric tons) 100,000.0

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If you have validation messages, click to see what they are. The validations check whether values fall within particular ranges based on expected values, but they do not verify that the information is accurate.

From here, you can view the validation messages, add another subpart if needed, or logout.

## Questions?



- e-GGRT Information & Help
  - <http://www.ccdsupport.com>
  - Email: [GHGreporting@epa.gov](mailto:GHGreporting@epa.gov)
- GHG Reporting Rule Information & Help
  - <http://www.epa.gov/ghgreporting/reporters/index.html>
  - Email: [GHGMRR@epa.gov](mailto:GHGMRR@epa.gov)
- Other Subpart QQ resources
  - <http://www.epa.gov/ghgreporting/reporters/subpart/qq.html>

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We hope this overview has provided you greater familiarity with navigating and entering information for subpart QQ using the e-GGRT reporting tool.

Here are some additional links