

# e-GGRT

## Electronic Greenhouse Gas Reporting Tool



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# **Petroleum and Natural Gas Systems (Subpart W) Reporting Form Revisions for Deferred Data Elements**

**U.S. Environmental Protection Agency**  
Greenhouse Gas Reporting Program (GHGRP)  
February 2015

# Overview of Webinar

- Overview of this webinar
- About Subpart W data deferred until 2015
- EPA’s approach to collecting these data: Reporting Year (RY) 2014 and prior RYs
- Review changes to the reporting form for RY14
- Review the RY2011 – RY2013 deferred data reporting form and the submission process for deferred data
- Discuss the XML reporting methods
- Questions and answers

- In August 2011, EPA deferred the reporting deadline for a number of Subpart W equation inputs until March 31, 2015. The inputs to equations whose reporting deadline was deferred until 2015 are listed in [Table A-7 of subpart A](#).
- In October 2014, EPA finalized the approach to collecting these deferred inputs and in that rule made several minor modifications to the reporting requirements for Subpart W.
- As a result, reporters must submit both an expanded set of Subpart W data for Reporting Year 2014 and deferred data elements for Reporting Years 2011, 2012, and 2013 by March 31, 2015. These data must be submitted as part of the facility's RY2014 submission.

To accommodate the reporting requirements of Subpart W inputs, EPA has:

- 1) Expanded the RY14 Reporting Form to include the previously deferred items. New items added to the right side of existing tables.
- 2) Created a separate reporting form for collection of the deferred data elements for RY11, 12, and 13. This new form is designed to ensure that the reporting of the deferred data is consistent with data previously submitted.
- 3) Revised the XML schema supporting Subpart W to accommodate these new data and defined an additional branch of the schema to accommodate deferred data.

# Download the Forms or Schema

- The forms for Subpart W can be downloaded at <http://www.ccdsupport.com/confluence/display/help/Reporting+Form+Instructions>
- The XML schema for Subpart W can be downloaded at <http://www.ccdsupport.com/confluence/display/help/XML+Reporting+Instructions>
- On the following pages, we will first review the changes to the RY14 reporting form, then review the deferred reporting form, and finally discuss the changes to the XML schema for Subpart W.

- Data elements related to inputs to emissions equations have been included for 16 sources:

Source
Natural Gas Pneumatic Device Venting
Natural Gas Driven Pneumatic Pumps
Acid Gas Removal Units
Dehydrators
Well Venting for Liquid Unloading
Gas Well Completion & Workovers
Blowdown Vent Stacks
Atmospheric Tanks
Flare Stacks
Centrifugal Compressors
Reciprocating Compressors
Equipment Leaks
Local Distribution
EOR Injection Pump Blowdown
EOR Liquids Dissolved CO <sub>2</sub>
Combustion Emissions

# Natural Gas Pneumatic Device Venting

## Natural gas pneumatic device venting [98.236(c)(1)]

Version R.03

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### Worksheet Instructions:

In accordance with 98.232, only the following industry segments must report data for natural gas pneumatic device venting:

- Onshore petroleum and natural gas production [98.230(a)(2)]
- Onshore natural gas transmission compression [98.230(a)(4)]
- Underground natural gas storage [98.230(a)(5)]

### External Links:

Type of Pneumatic Device	Total CO <sub>2</sub> Emissions (mt CO <sub>2</sub> )  [98.236(c)(1)(iv)]	Total CH <sub>4</sub> Emissions (mt CO <sub>2</sub> e)  [98.236(c)(1)(iv)]	Actual Count	Estimated Count
			98.236(c)(1)(i)	98.236(c)(1)(i)
			98.236(c)(1)(ii)	98.236(c)(1)(ii)
			98.236(c)(1)(iii)	98.236(c)(1)(iii)
High-bleed Pneumatic Devices				
Intermittent Bleed Pneumatic Devices				
Low-Bleed Pneumatic Devices				

For Natural Gas Pneumatic Device Venting  
there are 2 new additions to the form.



# Natural Gas Driven Pneumatic Pumps

## Natural Gas Driven Pneumatic Pumps [98.236(c)(2)]

Version R.03

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### Worksheet Instructions:

In accordance with 98.232, only the following industry segment must report data for natural gas driven pneumatic pumps:

-Onshore petroleum and natural gas production [98.230(a)(2)]

### External Links:

Type of Pneumatic Pump	Total CO <sub>2</sub> Emissions (mt CO <sub>2</sub> ) [98.236(c)(2)(ii)]	Total CH <sub>4</sub> Emissions (mt CO <sub>2</sub> e) [98.236(c)(2)(ii)]	Total count of Natural Gas Driven Pneumatic pumps 98.236(c)(2)(i)
Natural Gas Driven Pneumatic Pumps			

For Natural Gas Driven Pneumatic Pump  
there is 1 new addition to the form

# Acid Gas Removal Units

## Acid Gas Removal Units [98.236(c)(3)]

Version R.03

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### Worksheet Instructions:

In accordance with 98.232, only the following industry segments must report data for acid gas removal units:

- Onshore petroleum and natural gas production [98.230(a)(2)]
- Onshore natural gas processing [98.230(a)(3)]

### External Links:

Uniq	ing gy 1	Complete Only if Using Calculation Methodology 2	Complete Only if Using Calculation Methodology 3		Total annual volume of natural gas flowing out of the acid gas removal unit, using a meter or engineering estimate based on process knowledge or best available data (million actual cubic feet per year)
		Annual average fraction of CO <sub>2</sub> content in the vent from the acid gas removal unit (volumetric fraction)	Annual average fraction of CO <sub>2</sub> content of natural gas into the acid gas removal unit (volumetric fraction)	Annual average fraction of CO <sub>2</sub> content of natural gas out of the acid gas removal unit (volumetric fraction)	
	in of nt oval i)	[98.236(c)(3)(ii)]	[98.236(c)(3)(iii)]	[98.236(c)(3)(iii)]	[98.236(c)(3)(i)]

For Acid Gas Removal Units,  
there are 3 new additions to the form covering Calculation  
Methodologies 2 and 3, plus 1 more for each unit

# Dehydrators

## Dehydrators [98.236(c)(4)]

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### Worksheet Instructions:

In accordance with 98.232, only the following industry segments must report data for dehydrators:

- Onshore petroleum and natural gas production [98.230(a)(2)]
- Onshore natural gas processing [98.230(a)(3)]

### External Links:

If the facility has any glycol dehydrators with a throughput <0.4 MMscfd, complete following table:

What Vent Gas Controls Used [98.236(c)(4)(ii)(B)]	Describe "Other/Multiple" Vent Gas Controls [98.236(c)(4)(ii)(B)]	Total CO <sub>2</sub> Emissions from Venting (mt CO <sub>2</sub> ) [98.236(c)(4)(ii)(C)]	Total CH <sub>4</sub> from (mi) [98.236	Emissions Flaring CO <sub>2</sub> e c)(4)(ii)(D)]	Count of Glycol Dehydrators (W-5) [98.236(c)(4)(ii)(A)]
Vapor Recovery					
Dehydrator Vents to Flares					
Regenerator fire-box/fire tubes					
No Vent Controls					
Other / Multiple Vent Gas Controls					

For Dehydrators there is 1 new addition to the form for small dehydrators (<0.4 MMscfd)

# Dehydrators (continued)

If the facility has any glycol dehydrators with a throughput  $\geq 0.4$  MMscfd, complete following table:

Unique ID		Glycol dehydrator feed natural gas flow rate determined by engineering estimate based on best available data (MMscfd) [98.236(c)(4)(i)(A)]	Glycol dehydrator absorbent circulation pump type [98.236(c)(4)(i)(B)]	Report whether stripper gas is used in glycol dehydrator [98.236(c)(4)(i)(C)]	Report whether a flash tank separator is used in glycol dehydrator [98.236(c)(4)(i)(D)]	Report type of absorbent used [98.236(c)(4)(i)(E)]

Total time the glycol dehydrator is operating (hours) [98.236(c)(4)(i)(F)]	Temperature of the wet natural gas (degrees Fahrenheit) [98.236(c)(4)(i)(G)]	Pressure of the wet natural gas (psig) [98.236(c)(4)(i)(G)]	Concentration of CO <sub>2</sub> in wet natural gas (mole fraction) [98.236(c)(4)(i)(H)]	Concentration of CH <sub>4</sub> in wet natural gas (mole fraction) [98.236(c)(4)(i)(H)]

For large dehydrators ( $\geq 0.4$  MMscfd) there are 10 new additions to the form

# Well Venting for Liquid Unloading

## Well Venting for Liquids Unloading [98.236(c)(5)]

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### Worksheet Instructions:

In accordance with 98.232, only the following industry segment must report data for well venting for liquids unloading:

-Onshore petroleum and natural gas production [98.230(a)(2)]

### External Links:

For Sub-basins using Calculation Method 1, complete following table:

Sub-Basin ID	Tubing Diameter [98.236(c)(5)(i)(A)]	Number of Wells [98.236(c)(5)(i)(B)]	Total CH <sub>4</sub> Emissions (mt CO <sub>2</sub> e) [98.236(c)(5)(i)(H)]	Average flow rate of the measured well venting (cubic feet per hour) [98.236(c)(5)(i)(D)]

For Sub-basins using Calculation Method 2 (without plunger lifts), complete following table:

Sub-Basin ID	Number of Wells vented liquids unloaded (without plunger lifts) [98.236(c)(5)(ii)(A)]	Total CH <sub>4</sub> Emissions (mt CO <sub>2</sub> e) [98.236(c)(5)(ii)(E)]	Cumulative number of unloadings vented to the atmosphere [98.236(c)(5)(ii)(C)]

For Sub-basins using Calculation Method 3 (with plunger lifts), complete following table:

Sub-Basin ID	Number of Wells vented liquids unloaded (with plunger lifts) [98.236(c)(5)(iii)(A)]	Total CH <sub>4</sub> Emissions (mt CO <sub>2</sub> e) [98.236(c)(5)(iii)(E)]	Cumulative number of unloadings vented to the atmosphere [98.236(c)(5)(iii)(C)]

# Gas Well Completions & Workovers

## Gas Well Completions and Workovers [98.236(c)(6)]

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### Worksheet Instructions:

In accordance with 98.232, only the following industry segment must report data for gas well completions and workovers:

-Onshore petroleum and natural gas production [98.230(a)(2)]

**NOTE:** Reporting is required for gas well completions WITH and WITHOUT hydraulic fracturing (as applicable) . Use the navigation links below to move

### External Links:

Complete the following table for gas well completions and workovers *with* hydraulic fracturing

Sub-Basin ID [98.236(c)(6)]	Wildcat or Delineation Wells Subject to a 2 Year Delay in Reporting		When using Equation W-10A			
	Are the only wells in the sub-basin wildcat or delineation wells subject to a 2 year delay in reporting? [98.236(c)(6)(i)(G)]	API Well Number(s) [98.236(c)(6)(i)(G)]	Measured flow rate of backflow during well completion (cubic feet per hour) [98.236(c)(6)(i)(B)]	Measured flow rate of backflow during well workover (cubic feet per hour) [98.236(c)(6)(i)(D)]	Total number of days of backflow from all wells during completions [98.236(c)(6)(i)(E)]	Total number of days of backflow from all wells during workovers [98.236(c)(6)(i)(F)]

For Gas Well Completions and Workovers with Hydraulic Fracturing there are 8 new additions to the form—6 are shown here.

If the only wells in the sub-basin are wildcat or delineation wells, reporting of inputs supporting Eq. W-10A may be delayed 2 years

# Gas Well Completions & Workovers (continued)

Two additional new data elements for gas well completions and workovers *with* hydraulic fracturing

For well completions that employed purposely designed equipment that separates natural gas from the backflow		For well workovers that employed purposely designed equipment that separates natural gas from the backflow	
Number of Completions	The amount of gas recovered to sales using engineering estimate based on best available data (standard cubic feet)	Number of Workovers	The amount of gas recovered to sales using engineering estimate based on best available data (standard cubic feet)
[98.236(c)(6)(i)(G)]	[98.236(c)(6)(i)(G)]	[98.236(c)(6)(i)(H)]	[98.236(c)(6)(i)(H)]

For Gas Well Completions and Workovers with Hydraulic Fracturing , these are the final 2 of 8 new additions to the form

# Gas Well Completions & Workovers (continued)

Complete the following table for gas well completions and workovers *without* hydraulic fracturing

Sub-Basin ID [98.236(c)(6)]	Total of g [9]	S 2e)	Total count of completions in calendar year [98.236(c)(6)(ii)(A)]	Total count of workovers in calendar year that flare gas or vent gas to the atmosphere [98.236(c)(6)(ii)(B)]

For Gas Well Completions and Workovers without Hydraulic Fracturing there are 2 new additions to the form



# Blowdown Vent Stacks

## Blowdown Vent Stacks [98.236(c)(7)]

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### Worksheet Instructions:

In accordance with 98.232, only the following industry segments must report data for blowdown vent stacks:

- Onshore natural gas processing [98.230(a)(3)]
- Onshore natural gas transmission compression [98.230(a)(4)]
- LNG import and export equipment [98.230(a)(7)]

### External Links:

For each unique physical volume that is blown down more than once during the calendar year, complete the following table:

Unique name or ID for unique physical volume [98.236(c)(7)(i)(C)]	Which equation was used to calculate natural gas venting emissions? (Select from list)	Total number of blowdowns for each unique physical volume in the calendar year [98.236(c)(7)(i)(A)]	Total CO <sub>2</sub> Emissions (mt CO <sub>2</sub> ) [98.236(c)(7)(i)(B)]	Total CH <sub>4</sub> Emissions (mt CO <sub>2</sub> e) [98.236(c)(7)(i)(B)]

For Blowdown Vent Stacks, unique volumes that use Eq. W-14A now must report the total number of blowdowns in the year

# Atmospheric Tanks

## Gas from Produced Oil Sent to Atmospheric Tanks [98.236(c)(8)]

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### Worksheet Instructions:

In accordance with 98.232, only the following industry segment must report data for gas from produced oil sent to atmospheric tanks:

-Onshore petroleum and natural gas production [98.230(a)(2)]

**Note:** The facility should report emissions collectively. Reporters are not restricted to using only one calculation methodology per sub-basin, and may use the requisite methods to report collective emissions, by sub-basin, for their facility.

### External Links:

For wellhead gas-liquid separator with oil throughput >10 barrels/day using Calculation Methodologies 1 or 2, complete the following table for each sub-basin:

Sub-Basin ID [98.236(c)(8)(i)]	Are the only wells in the sub-basin wildcat or delineation wells subject to a 2 year delay in reporting? [98.236(c)(8)(i)(F)]	API Well Number(s) [98.236(c)(8)(i)(F)]	Total volume of oil from all wellhead separators sent to tank(s) (bbl per yr) [98.236(c)(8)(i)(F)]	Annual CO <sub>2</sub> gas quantities that were recovered (mt CO <sub>2</sub> ) [98.236(c)(8)(i)(K)]	Annual CH <sub>4</sub> gas quantities that were recovered (mt CO <sub>2</sub> e) [98.236(c)(8)(i)(K)]

For Atmospheric Tanks, there are new additions to the form applicable to Methodologies 1 & 2, 3 & 4, and 5. If the only wells in the sub-basin are wildcat or delineation wells, reporting of total volume of oil may be delayed 2 years

# Atmospheric Tanks (continued)

For wellhead gas-liquid separator with oil throughput >10 barrels/day using Calculation Methodologies 3 or 4, complete the following table for each sub-basin:

Sub-Basin ID [98.236(c)(8)(ii)]	Annual N <sub>2</sub> O emissions from vent CO <sub>2</sub> e [98.236(c)(8)(ii)(I)]	Are the only wells in the sub-basin wildcat or delineation wells subject to a 2 year delay in reporting? [98.236(c)(8)(ii)(A)]	API Well Number(s) [98.236(c)(8)(ii)(A)]	Total volume of sales oil from all wells (bbl per yr) [98.236(c)(8)(ii)(A)]	Annual CO <sub>2</sub> gas quantities that were recovered (mt CO <sub>2</sub> ) [98.236(c)(8)(ii)(H)]	Annual CH <sub>4</sub> gas quantities that were recovered (mt CO <sub>2</sub> e) [98.236(c)(8)(ii)(H)]

For wellhead gas-liquid separators and wells with oil throughput <10 barrels/day using Calculation Methodology 5, complete the following table for each sub-basin:

Sub-Basin ID [98.236(c)(8)(iii)]	Annual CO <sub>2</sub> emissions from Venting CO <sub>2</sub> e [98.236(c)(8)(iii)(H)]	Number of wellhead separators [98.236(c)(8)(iii)(A)]	Number of wells without wellhead separators [98.236(c)(8)(iii)(B)]	Annual CO <sub>2</sub> gas quantities that were recovered (mt CO <sub>2</sub> ) [98.236(c)(8)(iii)(G)]	Annual CH <sub>4</sub> gas quantities that were recovered (mt CO <sub>2</sub> e) [98.236(c)(8)(iii)(G)]

# Flare Stacks

## Flare Stacks [98.236(c)(12)]

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### Worksheet Instructions:

In accordance with 98.232, only the following industry segments must report data for flare stacks:

- Onshore petroleum and natural gas production [98.230(a)(2)]
- Onshore natural gas processing [98.230(a)(3)]

**IMPORTANT NOTE:** If your flare emissions are reported on another source type, you must complete columns D through F on this sheet and enter zero (0) in columns H through L.

### External Links:

Unique ID	Unique Name (for the Flare Stack) [98.236(c)(12)(i)]	Flare emissions (actual CO <sub>2</sub> e) [98.236(c)(12)(ix)]	Volume of gas sent to flare (actual cubic feet per year) [98.236(c)(12)(ii)]	Flare combustion efficiency (decimal value) [98.236(c)(12)(v)]

For Flare Stacks there are 2 new additions to the form

# Centrifugal Compressors

## Centrifugal Compressors [98.236(c)(13)]

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### Worksheet Instructions:

In accordance with 98.232, only the following industry segments must report data for centrifugal compressors:

- Onshore petroleum and natural gas production [98.230(a)(2)]
- Onshore natural gas processing [98.230(a)(3)]
- Onshore natural gas transmission compression [98.230(a)(4)]
- Underground natural gas storage [98.230(a)(5)]
- Liquefied natural gas (LNG) storage [98.230(a)(6)]
- LNG import and export equipment [98.230(a)(7)]

**Note:** If a compressor has no emissions for a mode, enter zero, do not leave blank

### External Links:

For Onshore Petroleum and Natural Gas Production Only		
Total annual compressor emissions CO2 Emissions (mt CO2)  [98.236(c)(13)(v)(B)]	Total annual compressor emissions CH4 Emissions (mt CO2e)  [98.236(c)(13)(v)(B)]	Count of compressors  [98.236(c)(13)(v)(A)]

For Centrifugal Compressors, Onshore Production facilities have  
1 new addition to the form

# Centrifugal Compressors (continued)

Compressor ID	Were BAMS This Compressor	MODES	For Centrifugal Compressors in OPERATING MODE			For Centrifugal Compressors in SHUTDOWN, DEPRESSURIZED MODE	
		Total annual N <sub>2</sub> O emissions in all modes of operation combined (mt CO <sub>2</sub> e) [98.23(c)(13)(iv)]	Total time in operating mode (hours) [98.236(c)(13)(i)(F)]	Reporter emission factor for wet seal oil degassing vents (standard cubic feet per hour) [98.236(c)(13)(ii)(A)]	Reporter emission factor for blowdown vents (standard cubic feet per hour) [98.236(c)(13)(ii)(B)]	Total time in shutdown, depressurized mode (hours) [98.236(c)(13)(iii)(A)]	Reporter emission factor for isolation valve emissions (standard cubic feet per hour) [98.236(c)(13)(iii)(B)]

Facilities subject to centrifugal compressor reporting in oil and gas industry segments other than onshore petroleum and natural gas production have 5 new additions to the form

# Reciprocating Compressors

## Reciprocating Compressors [98.236(c)(14)]

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### Worksheet Instructions:

In accordance with 98.232, only the following industry segments must report data for reciprocating compressors:

- Onshore petroleum and natural gas production [98.230(a)(2)]
- Onshore natural gas processing [98.230(a)(3)]
- Onshore natural gas transmission compression [98.230(a)(4)]
- Underground natural gas storage [98.230(a)(5)]
- Liquefied natural gas (LNG) storage [98.230(a)(6)]
- LNG import and export equipment [98.230(a)(7)]

**Note:** If a compressor has no emissions for a mode, enter zero, do not leave blank

### External Links:

For Onshore Petroleum and Natural Gas Production Only		
Total annual compressor emissions CO <sub>2</sub> Emissions (mt CO <sub>2</sub> )  [98.236(c)(14)(v)(B)]	Total annual compressor emissions CH <sub>4</sub> Emissions (mt CO <sub>2</sub> e)  [98.236(c)(14)(v)(B)]	Count of compressors  [98.236(c)(14)(v)(A)]

For Reciprocating Compressors, Onshore Production facilities have 1 new addition to the form

# Reciprocating Compressors (continued)

Compressor ID	For Reciprocating Compressors in <u>OPERATING MODE</u>	For Reciprocating Compressors in <u>OPERATING AND STANDBY, PRESSURIZED MODE</u>		For Reciprocating Compressors in <u>NOT OPERATING, DEPRESSURIZED MODE</u>	
	Total time in operating mode (hours)  [98.236(c)(14)(i)(B)]	Total time in standby, pressurized mode (hours)  [98.236(c)(14)(ii)(A)]	Reporter emission factor for blowdown vents (standard cubic feet per hour)  [98.236(c)(14)(ii)(B)]	Total time the compressor is in not operating, depressurized mode (hours)  [98.236(c)(14)(iii)(A)]	Reporter emission factor for isolation valve emissions (standard cubic feet per hour)  [98.236(c)(14)(iii)(B)]

Other types of facilities have 5 new additions to the form



# Equipment Leaks

## Other Emissions from Equipment Leaks Estimated Using Emission Factors [98.236(c)(15)]

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### Worksheet Instructions:

In accordance with 98.232, only the following industry segments must report data for other emissions from equipment leaks estimated using emission factors:

- Onshore petroleum and natural gas production [98.230(a)(2)]
- Onshore natural gas processing [98.230(a)(3)]
- Onshore natural gas transmission compression [98.230(a)(4)]
- Underground natural gas storage [98.230(a)(5)]
- Liquefied natural gas (LNG) storage [98.230(a)(6)]
- LNG import and export equipment [98.230(a)(7)]
- Natural Gas Distribution [98.230(a)(8)]

### External Links:

Complete the following table for each component type (major equipment type for onshore production) that uses emission factors for estimating emissions for equipment leaks calculated using population counts and factors:

Component Type (Select from list) [98.236(c)(15)]	CO <sub>2</sub> Emissions (mt CO <sub>2</sub> ) [98.236(c)(15)(ii)(C)]	CH <sub>4</sub> Emissions (mt CO <sub>2</sub> e) [98.236(c)(15)(ii)(C)]	Total count for each type of leak source [98.236(c)(15)(ii)(A)]

For Equipment Leaks there is 1 new addition to the form, and for Onshore Production facilities, there is an additional table

# Equipment Leaks (continued)

For Onshore Production facilities that use Component Count Methodology 1 complete the following table:

Major Equipment Type [98.236(c)(15)(ii)(B)]	Total count for each type of Major Equipment [98.236(c)(15)(ii)(B)]
Wellheads	
Separators	
Meters/piping	
Compressors	
In-line heaters	
Dehydrators	
Heater-treater	
Header	

For Onshore Production facilities that use Component Count Methodology 1, this new table is to be completed

# Local Distribution

## Local Distribution Companies [98.236(c)(16)]

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### Worksheet Instructions:

In accordance with 98.232, only the following industry segments must report data for Local Distribution Companies:

-Natural gas distribution [98.230(a)(8)]

**NOTE:** CO<sub>2</sub> and CH<sub>4</sub> emissions from Sheet 15 (Equipment Leaks Using EFs) do not add into the Total Emissions for Local Distribution Companies.

### External Links:

Total number of above grade T-D transfer stations [98.236(c)(16)(i)]	
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Leak factor for meter/regulator run developed in Equation W-32 of §98.233 [98.236(c)(16)(viii)]	
Number of miles of unprotected steel distribution mains (W-31) [98.236(c)(16)(ix)]	
Number of miles of protected steel distribution mains (W-31) [98.236(c)(16)(x)]	
Number of miles of plastic distribution mains (W-31) [98.236(c)(16)(xi)]	
Number of miles of cast iron distribution mains (W-31) [98.236(c)(16)(xii)]	
Number of unprotected steel distribution services (W-31) [98.236(c)(16)(xiii)]	
Number of protected steel distribution services (W-31) [98.236(c)(16)(xiv)]	
Number of plastic distribution services (W-31) [98.236(c)(16)(xv)]	
Number of copper distribution services (W-31) [98.236(c)(16)(xvi)]	

For Local Distribution there are 9 new additions to the form. For RY11, 12, and 13 these 9 were optional items. For RY14 they are required.

# EOR Injection Pump Blowdown

## Enhanced Oil Recovery Injection Pump Blowdown [98.236(c)(17)]

Version R.03

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<b>Worksheet Instructions:</b>
In accordance with 98.232, only the following industry segment must report data for EOR injection pump blowdown: -Onshore petroleum and natural gas production [98.230(a)(2)]
<b>External Links:</b>

Complete the following table for each EOR Injection Pump:

Unique ID	Unique Name or ID Number for EOR Injection Pump (Optional)	CO <sub>2</sub> emissions (mt CO <sub>2</sub> )	Volume of critical phase gas between isolation valves (cubic feet)	Number of blowdowns per year	Critical phase EOR injection gas density (kg/ft <sup>3</sup> )
		[98.236(c)(17)(v)]	98.236(c)(17)(ii)	98.236(c)(17)(iii)	98.236(c)(17)(iv)

For EOR Injection Pump Blowdown there are 3 new additions to the form

# EOR Liquids Dissolved CO<sub>2</sub>

## Enhanced Oil Recovery Hydrocarbon Liquids Dissolved CO<sub>2</sub> [98.236(c)(18)]

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### Worksheet Instructions:

In accordance with 98.232, only the following industry segment must report data for EOR hydrocarbon liquids dissolved CO<sub>2</sub>:  
-Onshore petroleum and natural gas production [98.230(a)(2)]

### External Links:

Complete the following table for each sub-basin:

Sub-Basin ID	Annual CO <sub>2</sub> emissions (mt CO <sub>2</sub> ) [98.236(c)(18)(iii)]	Volume of crude oil produced (barrels per year) [98.236(c)(18)(i)]	Amount of CO <sub>2</sub> retained in hydrocarbon liquids (mt CO <sub>2</sub> per barrel) [98.236(c)(18)(ii)]

For EOR Injection Liquid Dissolved CO<sub>2</sub> there are 2 new additions to the form

# Combustion Emissions

## Onshore Petroleum and Natural Gas Production and Natural Gas Distribution Combustion Emissions [98.236(c)(19)]

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### Worksheet Instructions:

In accordance with 98.232, only the following industry segment must report data for combustion emissions:

- Onshore petroleum and natural gas production [98.230(a)(2)]
- Natural gas distribution [98.230(a)(8)]

### External Links:

Complete the following table for external fuel combustion units with a heat capacity greater than 5 mmBtu/hr:

Type of fuel combusted	Cumulative volume of fuel combusted	Fuel volume Units
[98.236(c)(19)(iv)]	[98.236(c)(19)(iv)]	[98.236(c)(19)(iv)]

Complete the following table for internal fuel combustion units with a heat capacity greater than 1 mmBtu/hr:

Type of fuel combusted	Cumulative volume of fuel combusted	Fuel volume Units
[98.236(c)(19)(vii)]	[98.236(c)(19)(vii)]	[98.236(c)(19)(vii)]

For Combustion Emissions there are 2 new tables for types and volumes of fuels combusted

# Deferred Data Reporting - Overview



Now we will review the process the Agency intends to use to collect deferred data elements for RY11, RY12, and RY13.

Since the Deferred Data must be submitted as part of your RY2014 submission, EPA has created reporting methods (reporting forms or XML schema) that allow these data to be included with your RY14 submission.

As we noted when reviewing the RY14 Reporting Form, deferred data elements are closely related to the previous data reporting. In most cases deferred elements are just additional columns which must be provided for every unit or sub-basin applicable on a previously reported tab or table.

# Deferred Data Reporting - Overview

For these deferred data it is very important that the deferred data match up, line for line, with the previously submitted data. EPA is planning to verify your deferred data by integrating it with your previously submitted data.

The Deferred Reporting form is designed to ease data preparation by presenting previously submitted data side by side with the deferred data which must now be submitted.

Data in grey cells comes from the previously submitted reporting form; blue cells identify deferred data that must be submitted. Only the blue deferred data elements (plus data elements that link deferred items to previous year annual reports, such as unit ID numbers) will be extracted from the reporting form and submitted.



# Deferred Data Reporting - (continued)

To use the Deferred Reporting Form you must have your previously submitted reporting form. If you don't have the submitted version or are uncertain which version of your form was submitted, you can download the submitted form from e-GGRT. (Instructions for downloading previously submitted forms can be found at <http://www.ccdsupport.com/confluence/x/PlvADg>)

You will need to prepare a Deferred Reporting form for each reporting year, e.g., RY11, RY12, and RY13, assuming you had sources with deferred data elements.

# Deferred Reporting Form

## Subpart W: Petroleum and Natural Gas Systems - Reporting Years 2011, 2012 and 2013 Deferred Data Reporting Form

Version D.1

Updated: 12/23/2014

For RY2011, RY2012, and RY2013 the Subpart W reporting requirement deferred collection of a number of data elements until March 31, 2015. The Reporting Form is designed to allow reporting of those deferred data elements. This form extracts the originally submitted data from for Subpart W Reporting Form and presents it in the tables throughout this form to provide a context and continuity for deferred data. Previously entered data will be presented in Gray shaded cells and deferred data which you must enter will be presented in Blue shaded cells.

You do not need to re-enter previously submitted data. Instead you must identify your original reporting form in Cell C5, open that file in background using the line in Cell C7 and this form will extract your previously submitted data from the referenced form. Source files stored on network drives should not be used; remote files should be copied to the local computer.

### 1.) Enter the location and name of original Subpart W Form

(you may include a drive or folder references, for example "C:\EGGRT\SP W\Deferred Capture\Onshore Test.xls", do not include quotes or special characters)

### 2.) [Click this Link Once the File Name Has Been Entered Above](#)

Once you click the link above you should see the industry segment from your original form below

Offshore petroleum and natural gas production [98.230(a)(1)]  
 Onshore petroleum and natural gas production [98.230(a)(2)]  
 Onshore natural gas processing [98.230(a)(3)]  
 Onshore natural gas transmission compression [98.230(a)(4)]  
 Underground natural gas storage [98.230(a)(5)]  
 Liquefied natural gas (LNG) storage [98.230(a)(6)]  
 LNG import and export equipment [98.230(a)(7)]  
 Natural gas distribution [98.230(a)(8)]

### 3.) The following table provide general information about this facility from your original form:

Facility Name:	
GHGRP ID:	
Reporting Period:	
Annual throughput [98.236(d)]	Gaseous Throughput (MMscf)
Annual throughput [98.236(d)]	Liquid Throughput (thousand barrels)
Comments:	

# Deferred Reporting Form (continued)

To initiate data entry on a deferred form you must first provide the name and folder location of the previously submitted form.

## 1.) Enter the location and name of original Subpart W Form



This entry can be a complete file reference like **C:\EGGRT\SP W\Deferred Capture\Onshore Test.xls** or if both the source file and deferred form are in the same folder just the file name will suffice. Once the source file has been identified use the link below to open that file in excel. Once opened the source file can be minimized.

## 2.) [Click this Link Once the File Name Has Been Entered Above](#)

# Deferred Reporting Form (continued)

Once the source file is identified and opened in Excel the Deferred form will read all the contents from the Source file into the Deferred Form.

Note: Grey Background data cannot be edited – it comes from the source file.

On the Introduction Tab only the source file can be entered – the rest is imported.

1.) Enter the location and name of original Subpart W Form

(you may include a drive or folder references, for example "C:\EGGRT\SP W\Deferred Capture\Onshore Test.xls", do not include quotes or special characters

Onshore Test.xls

2.) [Click this Link Once the File Name Has Been Entered Above](#)

Once you click the link above you should see the industry segment from your original form below

- Offshore petroleum and natural gas production [98.230(a)(1)]
- Onshore petroleum and natural gas production [98.230(a)(2)]
- Onshore natural gas processing [98.230(a)(3)]
- Onshore natural gas transmission compression [98.230(a)(4)]
- Underground natural gas storage [98.230(a)(5)]
- Liquefied natural gas (LNG) storage [98.230(a)(6)]
- LNG import and export equipment [98.230(a)(7)]
- Natural gas distribution [98.230(a)(8)]

3.) The following table provide general information about this facility from your original form:

Facility Name:		MLH Resources
GHGRP ID:		513108
Reporting Period:		2013
Annual throughput [98.236(d)]	Gaseous Throughput (MMscf)	2452.534
Annual throughput [98.236(d)]	Liquid Throughput (thousand barrels)	4345.1
Comments:		Test for Onshore Production

# Deferred Reporting Form (continued)

4.) Fill out the applicable source deferred reporting forms for your industry segment, as indicated with a green "Yes", below:

	Deferred Data Elements Required for Onshore petroleum and natural gas production [98.230(a)(2)]:	Go to Reporting Spreadsheet
Sub-Basin Selection	No	<a href="#">Go to Form</a>
Natural Gas Pneumatic Devices [98.236(c)(1)]	Yes	<a href="#">Go to Form</a>
Natural Gas Driven Pneumatic Pumps [98.236(c)(2)]	Yes	<a href="#">Go to Form</a>
Acid Gas Removal Units [98.236(c)(3)]	Yes	<a href="#">Go to Form</a>
Dehydrators [98.236(c)(4)]	Yes	<a href="#">Go to Form</a>
Well Venting for Liquids Unloading [98.236(c)(5)]	Yes	<a href="#">Go to Form</a>
Gas Well Completions and Workovers [98.236(c)(6)]	Yes	<a href="#">Go to Form</a>
Blowdown Vent Stacks [98.236(c)(7)]	No	<a href="#">Go to Form</a>
Gas from Produced Oil Sent to Atmospheric Tanks [98.236(c)(8)]	Yes	<a href="#">Go to Form</a>
Reciprocating Compressors [98.236(c)(14)]	Yes	<a href="#">Go to Form</a>
Other Emissions from Equipment Leaks Estimated Using Emission Factors [98.236(c)(15)]	Yes	<a href="#">Go to Form</a>
Local Distribution Companies [98.236(c)(16)]	No	<a href="#">Go to Form</a>
Enhanced Oil Recovery Injection Pump Blowdown [98.236(c)(17)]	Yes	<a href="#">Go to Form</a>
Enhanced Oil Recovery Hydrocarbon Liquids Dissolved CO <sub>2</sub> [98.236(c)(18)]	Yes	<a href="#">Go to Form</a>
Onshore Petroleum and Natural Gas Production and Natural Gas Distribution Combustion Emissions [98.236(c)(19)]	Yes	<a href="#">Go to Form</a>
Offshore Sources [98.236(b)]	No	<a href="#">Go to Form</a>

# Deferred Reporting Form - Example

## Natural gas pneumatic device venting [98.236(c)(1)]

Version D.1

[Back to Summary Tab](#)

### Worksheet Instructions:

The Reporting Form is designed to allow reporting of deferred data elements. This form extracts the originally submitted data from for Subpart W Reporting Form and presents it in the tables throughout this form to provide a context and continuity for deferred data. Previously entered data will be presented in Gray shaded cells and deferred data which you must enter will be presented in Blue shaded cells.

In accordance with 98.232, only the following industry segments must report data for natural gas pneumatic device venting:

- Onshore petroleum and natural gas production [98.230(a)(2)]
- Onshore natural gas transmission compression [98.230(a)(4)]
- Underground natural gas storage [98.230(a)(5)]

### External Links:

- Does the Facility have any continuous high-bleed pneumatic devices subject to reporting under 98.232? **Yes**
- Does the Facility have any intermittent bleed pneumatic devices subject to reporting under 98.232? **Yes** ←
- Does the Facility have any continuous low-bleed pneumatic devices subject to reporting under 98.232? **Yes**

Type of Pneumatic Device	Total CO <sub>2</sub> Emissions (mt CO <sub>2</sub> ) [98.236(c)(1)(iv)]	Total CH <sub>4</sub> Emissions (mt CO <sub>2</sub> e) [98.236(c)(1)(iv)]	Actual Count	Estimated Count
			98.236(c)(1)(i) 98.236(c)(1)(ii) 98.236(c)(1)(iii)	98.236(c)(1)(i) 98.236(c)(1)(ii) 98.236(c)(1)(iii)
High-bleed Pneumatic Devices	975.0	11,323.5		
Intermittent Bleed Pneumatic Devices	430.1	4,995.6		
Low-Bleed Pneumatic Devices	28.6	333.0		

# Deferred Reporting Form – Example (continued)

## Gas Well Completions and Workovers [98.236(c)(6)]

Version D.1

[Back to Summary Tab](#)

### Worksheet Instructions:

The Reporting Form is designed to allow reporting of deferred data elements. This form extracts the originally submitted data from for Subpart W Reporting Form and presents it in the tables throughout this form to provide a context and continuity for deferred data. Previously entered data will be presented in Gray shaded cells and deferred data which you must enter will be presented in Blue shaded cells.

In accordance with 98.232, only the following industry segment must report data for gas well completions and workovers:  
-Onshore petroleum and natural gas production [98.230(a)(2)]

**NOTE:** Reporting is required for gas well completions WITH and WITHOUT hydraulic fracturing (as applicable). Use the navigation links below

### External Links:

Did the facility have any gas well completions or workovers WITH hydraulic fracturing? Yes  
Did the facility have any gas well completions or workovers WITHOUT hydraulic fracturing? No



Sub-Basin ID [98.236(c)(6)]	Well Type (Select from list) [98.236(c)(6)(i)]	Select the Equation to Calculate Emissions From Gas Well Completions or Workovers Hydraulic Fracturing [98.236(c)(6)(j)]	Emissions Reporting for Workovers (at CO <sub>2</sub> e) [98.236(c)(6)(j)]	Wildcat or Delineation Wells Subject to a 2 Year Delay in Reporting		Measured flow rate of backflow during well completion (cubic feet per hour) [98.236(c)(6)(i)(B)]
				Are the Only Wells in the Sub-basin Wildcat or Delineation Well Subject to a 2 Year Delay in Reporting [98.236(c)(6)(i)(G)]	API Well Number(s) [98.236(c)(6)(i)(G)]	
535 - ALBANY, WY (1) - Oil	Vertical	Flow Rates (based on Eq. W-10A and Modified)	7.6	No		1000
535 - CARBON, WY (7) - High permeability	Vertical	Equation W-10B	7.6	Yes		
535 - MOFFAT, CO (81) - Shale gas	Horizontal	Equation W-10B	7.6	No		2000

# Blowdown Vent Stacks

## Blowdown Vent Stacks [98.236(c)(7)]

Version R.03

[Back to Summary Tab](#)

### Worksheet Instructions:

In accordance with 98.232, only the following industry segments must report data for blowdown vent stacks:

- Onshore natural gas processing [98.230(a)(3)]
- Onshore natural gas transmission compression [98.230(a)(4)]
- LNG import and export equipment [98.230(a)(7)]

### External Links:

For *each* unique physical volume that is blown down more than once during the calendar year, complete the following table:

Unique name or ID for unique physical volume [98.236(c)(7)(i)(C)]	Which equation was used to calculate natural gas venting emissions? (Select from list)	Report Only if Using Eq. W-14B	Total CO <sub>2</sub> Emissions (mt CO <sub>2</sub> ) [98.236(c)(7)(i)(B)]	Total CH <sub>4</sub> Emissions (mt CO <sub>2</sub> e) [98.236(c)(7)(i)(B)]	Report Only if Using Eq. W-14A
		Total number of blowdowns for each unique physical volume in the calendar year [98.236(c)(7)(i)(A)]			Total number of blowdowns for each unique physical volume in the calendar year [98.236(c)(7)(i)(A)]

For Blowdown Vent Stacks there is 1 new addition to the form applicable to blowdown volumes based on Eq. W-14A



# Deferred Reporting Form – Example (continued)

## Local Distribution Companies [98.236(c)(16)]

Complete the following table for the facility:

Total number of above grade T-D transfer stations [98.236(c)(16)(i)]	4
Leak factor for meter/regulator run developed in Equation W-32 of §98.233 [98.236(c)(16)(viii)]	
Number of miles of unprotected steel distribution mains (W-31) [98.236(c)(16)(ix)]	
Number of miles of protected steel distribution mains (W-31) [98.236(c)(16)(x)]	
Number of miles of plastic distribution mains (W-31) [98.236(c)(16)(xi)]	
Number of miles of cast iron distribution mains (W-31) [98.236(c)(16)(xii)]	
Number of unprotected steel distribution services (W-31) [98.236(c)(16)(xiii)]	
Number of protected steel distribution services (W-31) [98.236(c)(16)(xiv)]	
Number of plastic distribution services (W-31) [98.236(c)(16)(xv)]	
Number of copper distribution services (W-31) [98.236(c)(16)(xvi)]	

These data were optional in the original reporting form. If these data were previously provided they do not need to be included in your deferred submission. If all the deferred items were submitted voluntarily you are not required to use and submit this form.

# How to Submit Your Deferred Reporting Form

The screenshot shows the e-GGRT interface for a facility named 'Angkor'. The main heading is 'Subpart W: Petroleum and Natural Gas Systems (2014)'. On the right, three summary boxes show: Annual mass of CO<sub>2</sub> (metric tons) at 1,421,350.4; Annual mass of CH<sub>4</sub> (metric tons) at 149,185.92; and Annual mass of N<sub>2</sub>O (metric tons) at 4.475. Below these is a 'Subpart W: View Validation' button with a warning icon. The 'SUBPART W SUMMARY INFORMATION FOR THIS FACILITY' section includes a 'DOWNLOAD FORM' step with a link to 'Subpart W GHG Reporting' and an 'UPLOAD COMPLETED SUBPART W INTEGRATED REPORTING FORM AND/OR APPLICABLE DEFERRED REPORTING FORMS FOR RY2011, RY2012, AND RY2013' step. The upload step shows a 'Browse...' button with 'No file selected.' and an 'UPLOAD' button. Below is a table of uploaded files:

Uploaded File Name	Attached By	Date	Deferred?	Delete
RY14_OnshoreProduction.xls	M Huppert	February 2, 2015		✖

At the bottom left of the main content area is a 'Facility Overview' link. The footer contains 'Paperwork Reduction Act Burden Statement | Contact Us' and 'e-GGRT RY2014.R39 | W-overview'.

Navigate to the Subpart W reporting page.

Then upload the completed RY 2014 reporting form and all applicable back-year deferred data reporting forms.

# How to Submit Your Deferred Reporting Form (continued)

**EPA** United States Environmental Protection Agency

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

HOME FACILITY REGISTRATION FACILITY MANAGEMENT DATA REPORTING

Hello, M Huppert | My Profile | Logout

e-GGRT Help

## Angkor

### Subpart W: Petroleum and Natural Gas Systems (2014)

Subpart Overview

**OVERVIEW OF SUBPART REPORTING REQUIREMENTS**

Subpart W requires affected facilities to report CO<sub>2</sub>, CH<sub>4</sub>, and N<sub>2</sub>O emissions from onshore and offshore petroleum and natural gas production. 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 W reporting requirements you will first download the Subpart W reporting form(s). Use the link provided to access the form(s) and find instructions for completing those forms. Next, you will upload the completed form(s) and e-GGRT will validate the data contained within them. Use the "View Validation" link to review any issues found in your reporting forms. If necessary, make any revisions necessary to your reporting forms and upload the revised reporting forms.

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

**1,421,350.4**  
Annual mass of CO<sub>2</sub> (metric tons)

**149,185.92**  
Annual mass of CH<sub>4</sub> (metric tons)

**4.475**  
Annual mass of N<sub>2</sub>O (metric tons)

**Subpart W: View Validation**

SUBPART W SUMMARY INFORMATION FOR THIS FACILITY

1.) DOWNLOAD FORM

Subpart W GHG Reporting

2.) UPLOAD COMPLETED SUBPART W INTEGRATED REPORTING FORM AND/OR APPLICABLE DEFERRED REPORTING FORMS FOR RY2011, RY2012, AND RY2013

Browse... No file selected. **UPLOAD**

Uploaded File Name	Attached By	Date	Deferred?	Delete
RY14_OnshoreProduction.xls	M Huppert	February 2, 2015		✘
RY12 Deferred OnshoreProdTest_12.xls	M Huppert	February 2, 2015	Yes	✘
RY13 Deferred OnshoreProdTest_12.xls	M Huppert	February 2, 2015	Yes	✘
RY11 Deferred OnshoreProdTest_12.xls	M Huppert	February 2, 2015	Yes	✘

**Facility Overview**

Paperwork Reduction Act Burden Statement | Contact Us

e-GGRT RY2014.R39 | W-overview

Once all forms are uploaded, review any validation errors that may have triggered.

# How to Submit Your Deferred Reporting Form (continued)

United States Environmental Protection Agency

HOME FACILITY REGISTRATION FACILITY MANAGEMENT DATA REPORTING

e-GGRT Electronic Greenhouse Gas Reporting Tool

Hello, M Huppert | My Profile | Logout

e-GGRT Help

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

PriceChopper

## e-GGRT Greenhouse Gas Data Reporting (2014)

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**

2014 Reporting Source or Supplier Category	Validation Messages?	Subpart Reporting
Subpart A—General Information	None	<a href="#">OPEN</a>
Subpart W—Petroleum and Natural Gas Systems	None	<a href="#">OPEN</a>

[ADD or REMOVE Subparts](#)

**Note:** You have deferred prior year data to be reported with your RY2014 submission. Please [Click Here](#) to report data.

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	
2014 Annual Report v1		Ready for review	10/23/2014 4 04 PM		<a href="#">GENERATE / SUBMIT</a> ✖

When finished, return to the Facility Overview page to generate and submit the RY 2014 report.

# XML-based Submission – Schema Changes

- EPA has revised the XML schema for Subpart W and added a section at the bottom of the schema to accommodate deferred data submissions for RY11, 12, and 13.
- The revised XML reporting schema for Subpart W can be downloaded at <http://www.ccdsupport.com/confluence/display/help/XML+Reporting+Instructions>

Q. Would a facility have to submit a separate deferred reporting form for RY11, 12, and 13?

A. Yes, if applicable all three would be uploaded on the Subpart W upload page. This information would be submitted as part of the RY14 annual report.

Q. If the facility discovers an error in their previously reported data how can they correct that?

A. The facility must re-submit the prior year form using the standard process for resubmitting in e-GGRT. Then the user can revise their deferred reporting form using the revised original reporting form as a source.

Q. How do facilities which include more than one Subpart W segment report their deferred data?

A. The upload page will allow the upload of multiple deferred reporting forms for each year. One deferred form should be prepared for each original reporting form submitted in the prior year.

# Questions and Answers



GHGRP Help Desk

Email: [ghgreporting@epa.gov](mailto:ghgreporting@epa.gov)

Web:

<http://www.ccdsupport.com/confluence/display/help/GHGRP+Help+Desk+Contact+Information>

Telephone:

1-877-444-1188 (toll free)

1-703-676-4400 (outside U.S.)

As a reminder, please do not submit sensitive or business confidential information to the helpline. Anything you send to the Help Desk may be made available to the public.

- Training website:  
<http://www.epa.gov/ghgreporting/reporters/training/index.html>
  - This webinar will be uploaded here
  - Upcoming webinar on March 3 about how to access GHGRP data
- GHGRP Help pages:  
<http://www.ccdsupport.com/confluence/display/help/Home>