E-**GGGR** Electronic Greenhouse Gas Reporting Tool



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Petroleum and Natural Gas Systems (Subpart W) Reporting Form Revisions for Stakeholder Preview

U.S. Environmental Protection Agency Greenhouse Gas Reporting Program (GHGRP) November 2014

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

About Subpart W Data Deferred until 2015



- 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 <u>Table A-7 of subpart A</u>.
- 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, reporter 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 Draft Forms or Schema



- EPA is providing a draft version of the RY14 and Deferred
 Data reporting forms to the public and is seeking comments
 and suggestions regarding these reporting tools.
- These draft forms and the draft version of the XML reporting schema for Subpart W can be downloaded at <u>http://www.ccdsupport.com/confluence/display/help/RY2014</u> <u>+Subpart+W+Preview+Materials</u>
- 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.

RY2014 Reporting Form



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

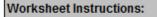
Source	
Natural Gas Pneumatic Device Venting	
Natural Gas Driven Pneumatic Pumps	
Acid Gas Removal Units	
Dehydrators	
Well Venting for Liquid Unloading	
Gas Well Completion & Workovers	
Blowdown Vent Stacks	
Atmospheric Tanks	
Flare Stacks	
Centrifugal Compressors	
Reciprocating Compressors	
Equipment Leaks	
Local Distribution	
EOR Injection Pump Blowdown	
EOR Liquids Dissolved CO2	
Combustion Emissions	

Natural Gas Pneumatic Device Venting

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

Version R.03

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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 ₂ Emissions (mt CO ₂) [98.236(c)(1)(iv)]	Total CH₄ Emissions (mt CO₂e) [98.236(c)(1)(iv)]	Actual Count 98.236(c)(1)(i) 98.236(c)(1)(ii) 98.236(c)(1)(iii)	Estimated Count 98.236(c)(1)(i) 98.236(c)(1)(ii) 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. <mark>8</mark>-

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

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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 ₂ Emissions (mt CO ₂) [98.236(c)(2)(ii)]	Total CH₄ Emissions (mt CO₂e) [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 H

Reporting Tool

Electronic Greenhouse Gas

B-

Acid Gas Removal Units



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

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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:

	Complete Only if Using Calculation Methodology 1	Complete Only if Using Calculation Methodology 2	Complete Only if Using Calculation Methodology 3		
Unique ID	Annual average fraction of CO ₂ content in the vent from the acid gas removal unit (volumetric fraction) [98.236(c)(3)(ii)]	Annual average fraction of CO ₂ content in the vent from each acid gas removal unit (volumetric fraction) [98.236(c)(3)(ii)]	Annual average volume fraction of CO ₂ content of natural gas into each acid gas removal unit [98.236(c)(3)(iii)]	Total throughput off each acid gas removal unit using a meter or engineering estimate based on process knowledge or best available data (million cubic feet per year) 98.236(c)(3)(i)	Annual quantity of CO ₂ , recovered from each acid gas removal unit and transferred outside the facility (metric tons CO ₂ e), under subpart PP of this part 98.233(d)(11) 98.236(c)(3)(iv)

For Acid Gas Removal Units there is 1 new addition to the form for each calculation methodology plus 2 more for each unit





Dehydrators [98.236(c)(4)]

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 R.03
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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	Describe "Other/Multiple" vent gas controls	Total CO ₂ Emissions from Venting (mtCO ₂)	Total CF from (m	Y₂O Emissions ↓om Flaring mt CO₂e)	Count of glycol dehydrators (W-5)
[98.236(c)(4)(ii)(B)]	[98.236(c)(4)(ii)(B)]	[98.236(c)(4)(ii)(C)]	[98.23/	`6(c)(4)(ii)(D)]	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) and 10 new additions to the form for large dehydrators (>=0.4 MMscfd)

Dehydrators (continued)

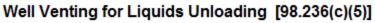


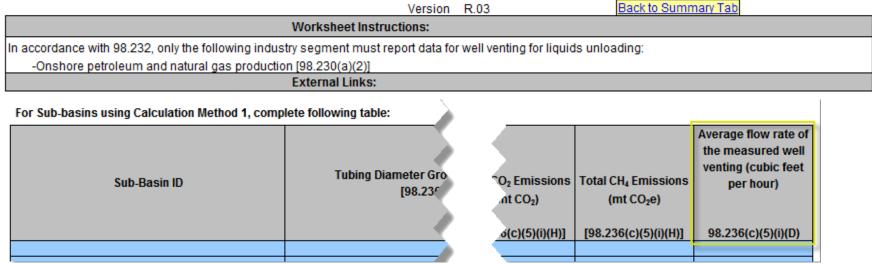
If the facility has any glycol dehydrators with a throughput ≥ 0.4 MMscfd, complete following table:

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

Total time the glycol dehydrator is operating in hours	Temperature of the wet natural gas (degrees Fahrenheit)	Pressure of the wet natural gas (psig)	Concentration of CO ₂ in wet natural gas (as a fraction)	Concentration of CH₄ in wet natural gas (as a fraction)
98.236(c)(4)(i)(F)	98.236(c)(4)(i)(G)	98.236(c)(4)(i)(G)	98.236(c)(4)(i)(H)	98.236(c)(4)(i)(H)

Well Venting for Liquid Unloading





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

Sub-Basin ID	Number of Wells ve liquids unload (without plunge)	nissions ربر	Total CH₄ Emissions (mt CO₂e)	Cumulative number of unloadings vented to the atmosphere
	[98.236(c)(5)(ı.	ے)(ii)(E)]	[98.236(c)(5)(ii)(E)]	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 v liquids unloau (with plunger [*] [98.236(c)(5)(i*	(issions ع) ۲ <u>(ii)(E)]</u>	Total CH₄ Emissions (mt CO₂e) [98.236(c)(5)(ii)(E)]	Cumulative number of unloadings vented to the atmosphere 98.236(c)(5)(ii)(c)

Gas Well Completions & Workovers



Gas Well Completions and Workovers [98.236(c)(6)]	_
Version R.03	Back to Summary Tab	
Worksheet Instructions:		
In accordance with 98.232, only the following industry segment must re -Onshore petroleum and natural gas production [98.230(a)(2)]	eport data for gas well comp	letions and workovers:
NOTE: Reporting is required for gas well completions WITH and WITH	OUT 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

	Wildcat or Delineation V Year Delay in F			When using E	quation W-10A	
Sub-Basin ID	Are the Only Wells in the Sub-basin Wildcat or Delineation Well Subject to a 2 Year Delay in	• •	Measured flow rate of backflow during well completion (cubic feet per hour)	of backflow during well workover (cubic	_	Total number of days of backflow from all wells during workovers
[98.236(c)(6)]	Reporting [98.236(c)(6)(i)(G)]	[98.236(c)(6)(i)(G)]	98.236(c)(6)(i)(B)	98.236(c)(6)(i)(D)	completions 98.236(c)(6)(i)(E)	98.236(c)(6)(i)(F)

For Gas Well Completions and Workovers with Hydraulic Fracturing there are 10 new additions to the form. 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

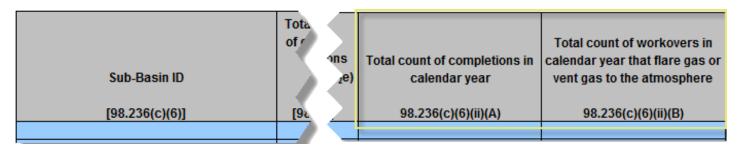
Gas Well Completions & Workovers (continued)



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

designed equipme	s that employed purposely nt that separates natural in the backflow	For well workovers that employed purposely designed equipment that separates natural ga 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)			

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



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:

				Report Only if Using Eq. W- 14A
Unique name or ID for unique physical volume [98.236(c)(7)(i)(C)]	Which equation was use calculate natural gas y emissions? (Select from list)	,ssions (mt CO₂) _,c)(7)(i)(B)]	Total CH ₄ Emissions (mt CO ₂ e) [98.236(c)(7)(i)(B)]	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



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

Version R.03	Back to Summary Tab						
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	-m - ₂ e)	Are the Only Wells in the Sub-basin Wildcat or Delineation Well Subject to a 2 Year Delay in Reporting	API Well Number(s)	Total volume of oil from all wellhead separators sent to tank(s) (bbls per yr)		Annual CH₄ gas quantities that were recovered (mt CO₂e)
[98.236(c)(8)(i)]		[98.236(c)(8)(i)(F)]	[98.236(c)(8)(i)(F)]	[98.236(c)(8)(i)(F)]	[98.236(c)(8)(i)(K)]	[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	di N2O ns from ,nt CO2e)	Are the Only Wells in the Sub-basin Wildcat or Delineation Well Subject to a 2 Year Delay in Reporting	API Well Number(s)	Total volume of sales oil from all wells (bbls per yr)		Annual CH₄ gas quantities that were recovered (mt CO₂e)
[98.236(c)(8)(ii)]	<u>(ا)(ii)(انـ</u>	[98.236(c)(8)(ii)(A)]	[98.236(c)(8)(ii)(A)]	[98.236(c)(8)(ii)(A)]	[98.236(c)(8)(ii)(H)]	[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	Annual CO ₂ from Ventin ²		Number of wellhead separators	Number of wells without wellhead separators		Annual CH ₄ gas quantities that were recovered (mt CO ₂ e)
[98.236(c)(8)(iii)]	[98.236(c)	,(H)]	[98.236(c)(8)(iii)(A)]	[98.236(c)(8)(iii)(B)]	[98.236(c)(8)(iii)(G)]	[98.236(c)(8)(iii)(G)]





Flare Stacks [98.236(c)(12)]

Version R.03	Back to Summary Tab						
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 N	Combusted CO ₂ Emissions (mt CO ₂) d8.236(c)(12)(viii)]	N ₂ O emissions (mt CO ₂ e) [98.236(c)(12)(ix)]	Volume of gas sent to flare (cubic feet per year) [98.236(c)(12)(ii)]	Flare combustion efficiency [98.236(c)(12)(v)]

For Flare Stacks there are 2 new additions to the form

Centrifugal Compressors



Centrifugal Compressors [98.236(c)(13)] Version R.03 Back to Summary Tab 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)	Total annual compressor emissions CH4 Emissions (mt CO2e)	Count of compressors			
[98.236(c)(13)(v)(B)]	[98.236(c)(13)(v)(B)]	[98.236(c)(13)(v)(A)]			

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

Centrifugal Compressors (continued)



			For Centrifugal	Compressors in <u>OPE</u>	RATING MODE	-	Compressors in essurized mode
Compressor ID W	/er Ti	Total annual N ₂ O Ssions from all modes of operation combined (mt CO ₂ e) [98.23(c)(13(iv)]	(hours) [98.236(c)(13)(i)(F)]	factor for wet seal oil degassing vents (cubic feet per hour)	(cubic feet per hour)	Total time in shutdown, depressurized mode (hours)	Reporter emission factor for isolation valve emissions (cubic feet per hour) [98.236(c)(13)(iii)(B)]

Other types of facilities have 5 new additions to the form

Reciprocating Compressors

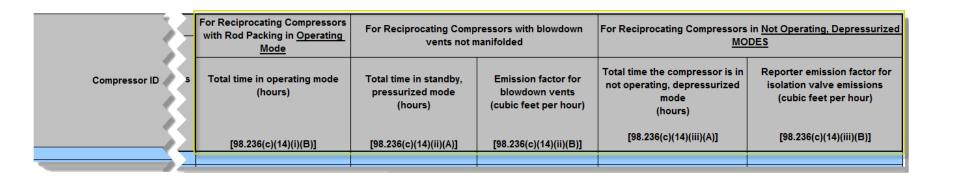


Reciprocating Compressors [98.236(c)(14)] Version R.03 Back to Summary Tab Worksheet Instructions: In accordance with 98.232, only the following industry segments must report data for reciprocating compressors: -Onshore petroleum and natural gas production [98.230(a)(2)] -Onshore natural gas processing [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 ₂ Emissions (mt CO ₂)	Total annual compressor emissions CH₄ Emissions (mt CO₂e)	Count of compressors			
[98.236(c)(14)(v)(B)]	[98.236(c)(14)(v)(B)]	[98.236(c)(14)(v)(A)]			

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

Reciprocating Compressors (continued)



Other types of facilities have 5 new additions to the form

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Reporting Tool

Electronic Greenhouse Gas

Equipment Leaks



Other Emissions from Equipment Leaks Estimated Using Emission Factors [98.236(c)(15)] Version R.03 Back to Summary Tab 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 storage [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)(7)] -Natural Gas Distribution [98.230(a)(8)]

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 ₂ Emissions (mt CO ₂)	CH ₄ Emissions (mt CO ₂ e)	Total count for each type of leak source
	[98.236(c)(15)(ii)(C)]	[98.236(c)(15)(ii)(C)]	[98.236(c)(15)(ii)(A)]

For Equipment Leaks there is 1 new addition to the form

Local Distribution



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

Version R.03

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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: CO₂ and CH₄ 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)]	
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.



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

 Version
 R.03
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 Worksheet Instructions:
 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)]

 External Links:

Complete the following table for each EOR Injection Pump:

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

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



Enhanced Oil Recovery Hydrocarbon Liquids Dissolved CO2 [98.236(c)(18)]

Version R.03	Back to Summary Tab				
Worksheet Instructions:					
In accordance with 98.232, only the following industry segment must report data for EOR hydrocarbon liquids dissolved CO2:					
-Onshore petroleum and natural gas production [98.230(a)(2)]					
External Links:					

Complete the following table for each sub-basin:

Sub-Basin ID	Annual CO₂ emissions (mt CO₂) [98.236(c)(18)(iii)]	Volume of crude oil produced (barrels per year) 98.236(c)(18)(i)	Amount of CO ₂ retained in hydrocarbon liquids (mt CO ₂ per barrel) 98.236(c)(18)(ii)

For EOR Injection Liquid Dissolved CO2 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:

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

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



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.



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 -Overview



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

Version D.1

Updated: 10/29/2014

For RY2011, RY2012, and RY2013 the Subpart W reporting requirement deferred collection of a number of data elements until March 30, 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 C10, open that file in background using the line in Cell C12 and this form will extract your previously submitted data from the referenced form

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.xIs", 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 orginal 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:		



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 <u>http://www.ccdsupport.com/confluence/x/PlvADg</u>)

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 inputs.

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 coming 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 orginal form below

Offshore petroleum and natural gas production [98.230(a)(1)]

X
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	<u>Go to Form</u>
Natural Gas Pneumatic Devices [98.236(c)(1)]	Yes	<u>Go to Form</u>
Natural Gas Driven Pneumatic Pumps [98.236(c)(2)]	Yes	<u>Go to Form</u>
Acid Gas Removal Units [98.236(c)(3)]	Yes	<u>Go to Form</u>
Dehydrators [98.236(c)(4)]	Yes	<u>Go to Form</u>
Well Venting for Liquids Unloading [98.236(c)(5)]	Yes	<u>Go to Form</u>
Gas Well Completions and Workovers [98.236(c)(6)]	Yes	<u>Go to Form</u>
Blowdown Vent Stacks [98.236(c)(7)]	No	<u>Go to Form</u>
Gas from Produced Oil Sent to Atmospheric Tanks [98.236(c)(8)]	Yes	<u>Go to Form</u>
Reciprocating Compressors [98.236(c)(14)]	Yes	<u>Go to Form</u>
Other Emissions from Equipment Leaks Estimated Using Emission Factors [98.236(c)(15)]	Yes	<u>Go to Form</u>
Local Distribution Companies [98.236(c)(16)]	No	<u>Go to Form</u>
Enhanced Oil Recovery Injection Pump Blowdown [98.236(c)(17)]	Yes	<u>Go to Form</u>
Enhanced Oil Recovery Hydrocarbon Liquids Dissolved CO ₂ [98.236(c)(18)]	Yes	<u>Go to Form</u>
Onshore Petroleum and Natural Gas Production and Natural Gas Distribution Combustion Emissions [98.236(c)(19)]	Yes	<u>Go to Form</u>
Offshore Sources [98.236(b)]	No	<u>Go to Form</u>

Deferred Reporting Form -Example



Natural gas pneumatic device venting [98.236(c)(1)]
Version D.1	ick to Summary Tab
Worksheet Instructions:	
	ements. This form extracts the originally submitted data from for Subpart W ovide a context and continuity for deferred data. Previously entered data will be er will be presented in Blue shaded cells.
In accordance with 98.232, only the following industry segments must -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)]	report data for natural gas pneumatic device venting:
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 ₂ Emissions (mt CO ₂) [98.236(c)(1)(iv)]	Total CH₄ Emissions (mt CO₂e) [98.236(c)(1)(iv)]	Actual Count 98.236(c)(1)(i) 98.236(c)(1)(ii) 98.236(c)(1)(iii)	Estimated Count 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



				Wildcat or Delineation Year Delay in		
Sub-Basin ID	Well Type (Select from list)	Select the Equative to Calculate Em ³ From Gas Vu Completions ³ Hydraulic Frac	Emissions claring for vrkovers ct CO2e)	Are the Only Wells in the Sub-basin Wildcat or Delineation Well Subject to a 2 Year Delay in Reporting		Measured flow rat of backflow during well completion (cubic feet per hour)
[98.236(c)(6)]	[98.236(c)(6)(i)]	[98.236(c)(6,	ی(c)(6)(i)(J)]	[98.236(c)(6)(i)(G)]	[98.236(c)(6)(i)(G)]	98.236(c)(6)(i)(B)
535 - ALBANY, WY (1) - Oil	Vertical	Flow Rates (base	7.6	No		
535 - CARBON, WY (7) - High permeability	Vertical	Eq. W-10A and Me		Yes		
535 - MOFFAT, CO (81) - Shale gas	Horizontal	Equation W-10B	7.6	No		

Deferred Reporting Form – Example (continued)



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

Complete the following table for the facility:

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 inlcuded in your deferred submission. If all the deferred items were submitted voluntarily you are not required to use and submit this form.



- 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 draft version of the XML reporting schema for Subpart W can be downloaded at <u>http://www.ccdsupport.com/confluence/display/help/RY2014</u> +Subpart+W+Preview+Materials



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 deferred 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 resubmit features 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 deferred 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

Web:

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

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.

Appendix



How to Submit Your Deferred Reporting



	ates ental Protection		
HOME FACILITY REGISTRA	ATION FACILITY MANAGEMENT DATA REPORTING	Reporting Tool Hello, M Huppert My Profile Logout	
e-GGRT Help How to add a subpart and report data General reporting information	MLH Resources e-GGRT Greenhouse Gas Data Reporting (201 Select Facility » Facility or Supplier Overview	No Inputs Verifier file exists	
How to submit an annual report	FACILITY OR SUPPLIER OVERVIEW This page allows you to add the source and/or supplier categories for w facility or supplier will be reporting, then to access those data reporting using the OPEN buttons. After data reporting is complete, you can initiate the annual report revie submission process from this page by using the SUBMIT button (or RE	g screens CO2 equivalent emissions from facility subparts C-II, SS, and TT (metric tons)	
REPOR	subsequent submissions if needed) T DATA	Bionenic CO2 emissions from facility	·
2014 R	eporting Source or Supplier Category	Validation Messages?	Subpart Reporting
Subpar	t A—General Information	None	OPEN
Subpar	t W—Petroleum and Natural Gas Systems	Cannot Submit-View Critical Errors	OPEN /
🕂 ADD	or REMOVE Subparts		
Note: Y	'ou have deferred prior year data to be repo	rted with your RY2014 submission.	Please Click Here to report data.
	REPORT DATA Validation Message 2014 Reporting Source or Supplier Category Validation Message Subpart A—General Information None Subpart W—Petroleum and Natural Gas Systems Cannot Submit-View ADD or REMOVE Subparts Note: You have deferred prior year data to be reported with your RY2014	OPEN v Critical Errors	

How to Submit Your Deferred Reporting (continued)



CEPA United Envir HOME FACILITY REGI		REPORTING		and a set of the
e-GGRT Help	MLH Resources Subpart W: Petroleum an Select Facility = Facility Overview = Def UPLOAD DEFERRED REPORTING FORM FORM	erred Data + Deferred Data Collect	s (2014)	n wy Plone Lo
	Uploaded File Name Deferred Onshore RY11.xls	Attached By M Huppert	Date November 13, 2014	Delete ¥
	UPLOAD DEFERRED REPORTING FORM F Browse No file selected.	UPLOAD		
	Uploaded File Name	Attached By	Date	Delete
	Deferred Onshore RY12 xIs	M Huppert	November 13, 2014	*
	Browse_ No file selected.	UPLOAD		
	Uploaded File Name	Attached By	Date	Delete
	Deferred Onshore RY13 xis	M Huppert	November 13, 2014	*

How to Submit Your Deferred Reporting (continued)



EPA United Stat	ntal Protection				e	-GGRT 옱
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NOT APPORT AND A REAL APPORTS	e-GGRT Green			ing (2014)		
and and an effect of the second second second	Select Facility »Faci	inty or supplie	r Overview			
rai réporting information			-		Company of the local data	
to submit an annual report	FACILITY OR SUPI			antenning for which we		4,718,428.6
				categories for which yo e data reporting screen		emissions from facility
	using the OPEN but			and the second second	and the local sector is a sector of the sect	S, and TT (metric tons)
				nual report review and IT button (or RESUBM		0.0
	for subsequent sub			T belien (or RESUBM		missions from facility subparts
					C-L 55, and T	r (metric tons)
		Reporting Meth	od: Data entry via	e-GGRT web-forms	-	
	(Change)					0.0
				v, then click GENERAT ated version of the An		ETALS
	2014 Reporting So	urce or Suppli	er Category Valia	dation Messages? Su	ubpart Reporting	
	Subpart A-General	and the local division of the local division	None	statement of the second se	OPEN	
	Subpart W-Petroles	CALLS AND			OPEN	
	ADD or REMOVE	Subparts				
	Note: You have deferre	ed prior year data	to be reported with	your RY2014 submissio	n. Please Click Here to	report data.
	If all subparts are com	olated and Valid	ation Messages add	essed to your satisfacti	on you are ready to re	snare and submit
	an Annual Report.	fueres and and	and messages and	esses to your satisfacti	on, you are ready to pr	share and some
	SUBMIT ANNUAL RE	PORT				
		Uploaded File			Certification	
	Report	Name	Status	Submitted Date	Date	
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	2014 Annual Report		Ready for	10/23/2014 4:04 PM		