

SDG&E, June 14, 2019

Rulemaking (R.) 15-01-008 to Adopt Rules and Procedures Governing Commission Regulated Natural Gas Pipelines and Facilities to Reduce Natural Gas Leaks Consistent with Senate Bill 1371, Leno.

In Response to Data Request, R15-01-008 - 2019 June Report

Appendix 2 - Rev. 03/29/19

Notes:

Use a formula-derived value with the formula used in the Annual Emissions column. Do not use a copy and paste-as-value.

At the end of Annual Emissions Column, add a summation total in a cell for a column total, and then highlight orange.

Facilities emissions that are based on a population count times an emission factor (See Appendix 9 for guidance).

Transmission M&R Station Total Leaks and Emissions:

Number of Stations	Station Classification	Emission Factor (Mscf/yr/<i>station</i>)	Annual Emission (Mscf)	Explanatory Notes / Comments
16	T	1554.8	24876.8	This includes stations that have Transmission to Distribution connections
20	D	12.2	244	

Sum Total

25,121

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Transmission M&R Station Blowdowns:

ID	Geographic Location	Number of Blowdown Events	Annual Emissions (Mscf)	Explanatory Notes / Comments
N/A	92592	1	20.14	Pressure Limiting Station Blowdown - Maintenance
N/A	SDGE Territory	52	1.04	Relief Valve Inspection at Transmission M&R Stations - Estimated avg. gas vented = 20 scf/insp (annual test with Nitrogen, gas vented is volume of gas in valve)
N/A	SDGE Territory	1	0.002	Gas Chromatograph
N/A	SDGE Territory	1	0.94	Pipeline Drip Accumulation - Estimated avg. gas vented = 11,300 cfh for 5min/device
N/A	SDGE Territory	29	0.87	Filter Changeout or Filter Inspection w/parts replacement - Estimated avg. gas vented = 30 scf/ea
N/A	SDGE Territory	9	0.225	Transmission Meter Orifice Plate Inspection at Transmission M&R Stations - Estimated avg. gas vented = 25 scf/insp
N/A	SDGE Territory	16	0.32	Pressure Limiting Station Annual Inspection - Estimated avg. gas vented = 20 scf/insp
	Sum Total		22	

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Notes:

The data collected on this sheet is for informational purposes and will not be included in the emissions inventory for 2018. The worksheet is designed to track actual emissions for future reference and to determine if an actual leak based emission accounting is feasible for M&R stations.

Use a formula-derived value with the formula used in the Annual Emissions column. Do not use a copy and paste-as-value.

At the end of Annual Emissions Column, add a summation total in a cell for a column total, and then highlight orange.

The emissions captured on this tab represent the emissions associated with the operational design and function of the component. Any intentional release of natural gas for safety or maintenance purposes should be included on the Blowdowns worksheet.

Transmission M&R Station Component Vented Emissions:

ID/Numbers of Devices	Geographic Location	Device Type	Bleed Rate	Manufacturer	Number of Days Emitting	Annual Emissions (Mscf)	Explanatory Notes / Comments	Emission Factor (Mscf/day/dev)
18	SDGE Territory	P	I	Misc.	365	378.4	Intermittent Bleed Pneumatic Devices emissions are included in Trans-to-trans Emission Factor of 1,554.8 Mscf/Station/Year	0.0576
					Sum Total	378		

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Notes:

The data collected on this sheet is for informational purposes and will not be included in the emissions inventory for 2018. The worksheet is designed to track actual leaks for future reference and to determine if an actual leak based emission accounting is feasible for M&R stations.

Use a formula-derived value with the formula used in the Annual Emissions column. Do not use a copy and paste-as-value.

At the end of Annual Emissions Column, add a summation total in a cell for a column total, and then highlight orange.

The emissions captured on this tab represent the emissions associated with unintentional leaks that if repaired would not be leaking. If the component is releasing gas or "bleeding" as a result of its design or function, then it is not to be captured in this tab.

12/31/2018 1/1/2018

Transmission M&R Station Component Fugitive Leaks:

ID	Geographic Location	Facility/ Device Type	Bleed Rate	Manufacturer	Discovery Date (MM/DD/YY)	Repair Date (MM/DD/YY)	Number of Days Leaking	Emission Factor (Mscf/day/dev)	Annual Emissions (Mscf)	Explanatory Notes / Comments	Prior Survey Date (MM/DD/YY)
6693043	92009	P	I	N/A	3/30/2018	3/30/18	57	N/A	N/A	Reported on Station Leaks and Emisions	2/1/2018
6541075-1	92173	O	I	N/A	12/15/2017	1/2/2018	3	N/A	N/A	Reported on Station Leaks and Emisions	11/20/2017
6687253-1	91915	C	I	N/A	6/5/2018	6/26/2018	28	N/A	N/A	Reported on Station Leaks and Emisions	5/29/2018
6687729-1	92154	C	I	N/A	6/8/2018	6/27/2018	29	N/A	N/A	Reported on Station Leaks and Emisions	5/29/2018
6687958-1	91978	P	I	N/A	6/25/2018	06/26/2018	13	N/A	N/A	Reported on Station Leaks and Emisions	6/13/2018
Sum Total									0		

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Header column "Comment" boxes displayed below for reference.	
Column Heading	Description and Definition of Required Contents (IF not self-explanatory)
Station Leaks and Emissions	
Number of Stations	
Station Classification	F = farm tap D = direct sale T = transmission-to-transmissions interconnect
Emission Factor (Mscf/yr)	
Annual Emission (Mscf)	
Explanatory Notes / Comments	

Blowdowns	
ID	
Geographic Location	GIS, zip code, or equivalent
Number of Blowdown Events	
Annual Emissions (Mscf)	
Explanatory Notes / Comments	

Component Vented Emissions	
Geographic Location	GIS, zip code, or equivalent
Device Type	C = connector O = open-ended line M = meter P = pneumatic device PR = pressure relief valve V = valve

Bleed Rate	L = low bleed I = intermittent bleed H = high bleed NA = not applicable
Manufacturer	
Number of Days Emitting	Because the emissions are a factor of design or function, these emissions counted for the entire year.
Annual Emissions (Mscf)	The emissions should be based on 365 days times the actual volume emitting if known, or the approved Emissions Factor. Note whether the emissions are based on actual volumetric measures in the next column.
Explanatory Notes / Comments	

Component Leaks	
ID	
Geographic Location	GIS, zip code, or equivalent
Device Type	C = connector O = open-ended line M = meter P = pneumatic device PR = pressure relief valve V = valve
Bleed Rate	L = low bleed I = intermittent bleed H = high bleed NA = not applicable
Manufacturer	

Discovery Date (MM/DD/YY)	<p>List the actual discovery date.</p> <p>If the leak was discovered in the year of interest, then we will assume the component was leaking from the beginning of the year for emissions reporting purposes, or prior survey date if surveyed previously within the year of interest.</p>
Repair Date (MM/DD/YY)	
Number of Days Leaking	<p>Assume Leaking from January 1 of subject year or prior survey date, whichever is later, thru the repair date (if repaired in year of interest) or December 31 of subject year, whichever is earlier.</p> <p>For O&M discovered leaks, assume that the leak begins with the discovery date <u>thru</u> repair date or December 31st of subject year, whichever is earlier.</p>
Annual Emissions (Mscf)	
Explanatory Notes / Comments	