SDG&E, June 15, 2018

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 - 2018 June Report

Appendix 2 - Rev. 03/31/18

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/station)	Annual Emission (Mscf)	Explanatory Notes / Comments
20	D	12.2	244	
16	T	1,554.8	24,877	
		Sum Total	**25,121**	

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

Transmission M&R Station Blowdowns:

ID	Geographic Location	Number of Blowdown Events	Annual Emissions (Mscf)	Explanatory Notes / Comments
N/A	SDG&E Territory	16	0.32	Pressure Limiting Station Annual Inspection - Estimated avg. gas vented = 20 scf/insp
N/A	SDG&E Territory	17	0.03	Pneumatic Device Annual Inspection - Estimated avg. gas vented = 2 scf/insp
N/A	SDG&E Territory	1	0.94	Pipeline Drip Accumulation - Estimated avg. gas vented = 11,300 cfh for 5min/device
N/A	SDG&E Territory	49	0.98	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	SDG&E Territory	14	0.42	Filter Changeout or Filter Inspection w/parts replacement - Estimated avg. gas vented = 30 scf/ea
N/A	SDG&E Territory	12	0.30	Transmission Meter Orifice Plate Inspection at Transmission M&R Stations - Estimated avg. gas vented = 25 scf/insp
	Sum Total		**3.00**	

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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.

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/Number of Devices	Geographic Location	Device Type	Bleed Rate	Manufacturer	Number of Days Emitting	Annual Emissions (Mscf)	Explanatory Notes / Comments	Emission Factor (Mscf/day/dev)
15	SDG&E Territory	P	I	Misc.	365	N/A	Intermittent Bleed Pneumatic Devices emissions are included in Trans-to-trans Emission Factor of 1,554.8 Mscf/Station/Year	0.0576
2	SDG&E Territory	P	H	Bristol	365	N/A	High Bleed Pneumatic Devices emissions are included in Trans-to-trans Emission Factor of 1,554.8 Mscf/Station/Year	0.4457
					Sum Total	0		

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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.

The emissions captured on this tab represent the emissions associated unintentional leaks that if repaired would not 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.

Transmission M&R Station Component Fugitive Leaks: 12/31/2017 1/1/2017

ID	Geographic Location	Device Type	Bleed Rate	Manufacturer	Discovery Date (MM/DD/YY)	Repair Date (MM/DD/YY)	Number of Days Leaking	Annual Emissions (Mscf)	Explanatory Notes / Comments	Prior Survey Date (MM/DD/YY)
6416002	91915	P	N/A	N/A	5/3/2017	5/19/2017	139	N/A	Component leaks at Transmission M&R Stations - Emissions are included in Transmission M&R Facilities Emission Factor of 1,554.8 Mscf/Station/Year	12/8/2016
6204814-1	91915	C	N/A	N/A	7/3/2017	7/3/2017	14	N/A	Component leaks at Transmission M&R Stations - Emissions are included in Transmission M&R Facilities Emission Factor of 1,554.8 Mscf/Station/Year	6/20/2017
6542991-1	91944	V	N/A	N/A	12/20/2017	12/20/2017	195	N/A	Component leaks at Transmission M&R Stations - Emissions are included in Transmission M&R Facilities Emission Factor of 1,554.8 Mscf/Station/Year	6/9/2017
6416003	91978	Other	N/A	N/A	5/1/2017	5/1/2017	121	N/A	Component leaks at Transmission M&R Stations - Emissions are included in Transmission M&R Facilities Emission Factor of 1,554.8 Mscf/Station/Year	12/7/2016
6415871	92008	V	N/A	N/A	4/29/2017	4/29/2017	119	N/A	Component leaks at Transmission M&R Stations - Emissions are included in Transmission M&R Facilities Emission Factor of 1,554.8 Mscf/Station/Year	12/8/2016
6415870	92088	Other	N/A	N/A	5/1/2017	5/1/2017	121	N/A	Component leaks at Transmission M&R Stations - Emissions are included in Transmission M&R Facilities Emission Factor of 1,554.8 Mscf/Station/Year	12/22/2016
6541503-1	92088	C	N/A	N/A	12/26/2017	12/28/2017	182	N/A	Component leaks at Transmission M&R Stations - Emissions are included in Transmission M&R Facilities Emission Factor of 1,554.8 Mscf/Station/Year	6/30/2017
6403435-2	92131	C	N/A	N/A	7/5/2017	7/5/2017	13	N/A	Component leaks at Transmission M&R Stations - Emissions are included in Transmission M&R Facilities Emission Factor of 1,554.8 Mscf/Station/Year	6/23/2017
6402831-1	92179	C	N/A	N/A	7/5/2017	7/5/2017	16	N/A	Component leaks at Transmission M&R Stations - Emissions are included in Transmission M&R Facilities Emission Factor of 1,554.8 Mscf/Station/Year	6/20/2017
6401584-1	92592	C	N/A	N/A	6/26/2017	6/26/2017	177	N/A	Component leaks at Transmission M&R Stations - Emissions are included in Transmission M&R Facilities Emission Factor of 1,554.8 Mscf/Station/Year	12/29/2016
						Sum Total		0		

Note: Selection for "Other" types of component leaks was removed as a selection category. Suggest adding this category back into the list of Device Type.

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

Column Heading	Description and Definition of Required Contents (IF not self-explanatory)
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

Column Heading	Description and Definition of Required Contents (IF not self-explanatory)
Manufacturer	
Discovery Date (MM/DD/YY)	List the actual discovery date. 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.
Repair Date (MM/DD/YY)	
Number of Days Leaking	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. For O&M discovered leaks, assume that the leak begins with the discovery date thru repair date or December 31st of subject year, whichever is earlier.
Annual Emissions (Mscf)	
Explanatory Notes / Comments	