

SDG&E, June 15, 2020

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 - 2020 June Report
Appendix 2 - Rev. 03/31/20**

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
16	T	1554.8	24,877	This includes stations that have Transmission to Distribution connections
20	D	12.2	244	
			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	SDGE Territory	44	0.88	Relief Valve Inspection at Transmission M&R Stations - Estimated avg. gas vented = 20 scf/insp
N/A	SDGE Territory	19	0	Filter Changeout or Filter Inspection w/parts replacement - Estimated avg. gas vented = 30 scf/ea
N/A	SDGE Territory	3	0.09	Orifice Plates (30 scf/inspection)
N/A	SDGE Territory	8	0.24	BoreScope Meters (30 scf/inspection)
N/A	SDGE Territory	1	0.025	Analyzer Inspections (25 scf/inspection)
N/A	SDGE Territory	1	0.002	Gas Chromatograph
N/A	SDGE Territory	16	0.32	Pressure Limiting Station Annual Inspection - Estimated avg. gas vented = 20 scf/insp

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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 2019. 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:

New Column

ID/Number of Devices	Geographic Location	Station Classification	Device Type	Bleed Rate	Manufacturer	Number of Days Emitting	Annual Emissions (Mscf)	Explanatory Notes / Comments
14	SDGE Territory		P	I	Misc.	365	294	Intermittent Bleed Pneumatic Devices emissions are included in Trans-to-trans Emission Factor of 1,554.8 Mscf/Station/Year

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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 2019. 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.

Transmission M&R Station Component Fugitive Leaks:

New Column												12/31/2019	1/1/2019
ID	Geographic Location	Station Classification	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)	
6989189-1	92592	A3	C			6/21/2019	6/21/2019	53	0.1399	N/A	Component leaks at Transmission M&R Stations	4/30/2019	
6989359-1	92008	A3	V			7/16/2019	7/16/2019	19	0.1572	N/A	Component leaks at Transmission M&R Stations	6/28/2019	
6990246-1	91915	A3	V			6/17/2019	6/17/2019	168	0.1572	N/A	Component leaks at Transmission M&R Stations	12/4/2018	
7000351-1	91942	A3	C			6/13/2019	6/13/2019	164	0.1399	N/A	Component leaks at Transmission M&R Stations	12/1/2018	
7202086	92139	A3	v			12/25/2019	12/26/2019	360	0.1572	N/A	Component leaks at Transmission M&R Stations	12/3/2018	
6963213-1	92194	A3	P			6/5/2019	6/5/2019	56	0.1399	N/A	Component leaks at Transmission M&R Stations	4/11/2019	
6990920-1	91978	A3	C			6/14/2019	6/14/2019	165	0.1399	N/A	Component leaks at Transmission M&R Stations	12/3/2018	
7140523-1	92154	A3	V			12/16/2019	12/16/2019	179	0.1572	N/A	Component leaks at Transmission M&R Stations	6/21/2019	

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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
Station Classification	A1 = above grade, pressure <100 psi A2 = above grade, pressure =100-300 psi A3 = above grade, pressure >300 psi B1 = below grade, pressure <100 psi B2 = below grade, pressure =100-300 psi B3 = below grade, pressure >300 psi

New Column - for type of M&R Station where emission located.

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
Station Classification	A1 = above grade, pressure <100 psi A2 = above grade, pressure =100-300 psi A3 = above grade, pressure >300 psi B1 = below grade, pressure <100 psi B2 = below grade, pressure =100-300 psi B3 = below grade, pressure >300 psi

New Column - for type of M&R Station where found.

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)	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	