

SDG&E, June 15,2021

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 - 2021 June Report Appendix 2 - Rev. 03/30/21

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)	Annual Emission (Mscf)	Explanatory Notes / Comments
14	T	1554.8	21,767.20	This includes stations that have Transmission to Distribution connections

21,767.20

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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
			24,877	

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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	SDGE Territory	14	0.28	Pressure Limiting Station Annual Inspection - Estimated avg. gas vented = 20 scf/insp
				Relief Valve Inspection at Transmission M&R Stations - Estimated avg. gas vented = 20 scf/insp (annual test with Nitrogen, gas vented is volume of
N/A	SDGE Territory	44	0.88	gas in valve)
N/A	SDGE Territory	21	0.63	Filter Changeout or Filter Inspection w/parts replacement - Estimated avg. gas vented = 30 scf/ea
N/A	SDGE Territory	6	0.18	Orifice Plates/Meters (30 scf/inpsection)
N/A	SDGE Territory	1	0.025	Analyzers (25 scf/inpsection)
N/A	SDGE Territory	1	0.02	Drips
		81	0.162	Actuators/Controllers - Estimated avg. gas vented = 2 scf/insp

2.177

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Notes:

The data collected on this sheet is for informational purposes and may not be included in the emissions inventory for 2020. 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	Geographic Location	Station Classification	Device Type	Bleed Rate	Manufacturer	Number of Days Emitting	Annual Emissions (Mscf)	Explanatory Notes / Comments
1	92072	A3	P	I	Misc.	366	NA	Controller (Monitor/Service)
1	92179	A3	P	I	Misc.	366	NA	Controller (Monitor/Service)
2	90210	A3	P	I	Misc.	366	NA	Controller (Monitor/Service)
1	92130	A3	P	I	Misc.	366	NA	Controller (Monitor/Service)
1	91943	A3	P	I	Misc.	366	NA	Controller (Monitor/Service)
1	92179	A3	P	I	Misc.	366	NA	Controller (Monitor/Service)
2	92142	A3	P	I	Misc.	366	NA	Controller (Monitor/Service)
1	91943	A3	P	I	Misc.	366	NA	Controller (Monitor/Service)
1	92122	A3	P	I	Misc.	366	NA	Controller (Monitor/Service)
1	92194	A3	P	I	Misc.	366	NA	Controller (Monitor/Service)
1	92158	A3	P	I	Misc.	366	NA	Controller (Monitor/Service)
2	92059	A3	P	I	Misc.	366	NA	Controller (Monitor/Service)
1	91979	A3	P	I	Misc.	366	NA	Controller (Monitor/Service)
1	92168	A3	P	I	Misc.	366	NA	Controller (Monitor/Service)

NA

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Notes:

The data collected on this sheet is for informational purposes and may not be included in the emissions inventory for 2020. 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-values.
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:												12/31/2020	1/1/2020
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)	
7251834	91943 A3	P				2/10/2020	2/11/2020	42.00	NA	NA	Component leaks at Transmission M&R Stations - Emissions are included in Transmission M&R Facilities Emission Factor of 1,554.8 Mscf/Station/Year	12/14/2019	
7358909	91943 A3	C				6/13/2020	6/13/2020	165.00	NA	NA	Component leaks at Transmission M&R Stations - Emissions are included in Transmission M&R Facilities Emission Factor of 1,554.8 Mscf/Station/Year	12/14/2019	
7360389	91942 A3	C				6/13/2020	6/13/2020	8.00	NA	NA	Component leaks at Transmission M&R Stations - Emissions are included in Transmission M&R Facilities Emission Factor of 1,554.8 Mscf/Station/Year	6/6/2020	
7360393	92179 A3	P				7/23/2020	7/23/2020	32.00	NA	NA	Component leaks at Transmission M&R Stations - Emissions are included in Transmission M&R Facilities Emission Factor of 1,554.8 Mscf/Station/Year	6/22/2020	
7366385	92179 A3	P				6/30/2020	6/30/2020	9.00	NA	NA	Component leaks at Transmission M&R Stations - Emissions are included in Transmission M&R Facilities Emission Factor of 1,554.8 Mscf/Station/Year	6/22/2020	
7366386	92130 A3	C				6/24/2020	6/24/2020	176.00	NA	NA	Component leaks at Transmission M&R Stations - Emissions are included in Transmission M&R Facilities Emission Factor of 1,554.8 Mscf/Station/Year	12/29/2019	
7366694	92179 A3	P				6/30/2020	6/30/2020	9.00	NA	NA	Component leaks at Transmission M&R Stations - Emissions are included in Transmission M&R Facilities Emission Factor of 1,554.8 Mscf/Station/Year	6/22/2020	
7518252	92145 A3	C				12/23/2020	12/23/2020	182.00	NA	NA	Component leaks at Transmission M&R Stations - Emissions are included in Transmission M&R Facilities Emission Factor of 1,554.8 Mscf/Station/Year	6/25/2020	

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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	D = direct sale T = transmission-to-transmissions interconnect As revised in 2021, enter Farm Taps in Appendix 5
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	