

SoCalGas, 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/ station)	Annual Emission (Mscf)	Explanatory Notes / Comments
67	T	1554.80	104,172	This includes station that have Transmission to Distribution connections
502	F	12.2	6,124.40	Tap Facilities -Transmission Maintained

110,296.00

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Transmission M&R Station Blowdowns:

ID	Geographic Location	Number of Blowdown Events	Annual Emissions (Mscf)	Explanatory Notes / Comments
N/A	SCG Territory	288	8.64	Filter Changeout or Filter Inspection w/parts replacement - Estimated avg. gas vented = 30 scf/ea
N/A	SCG Territory	21	0.042	LineBreaks - Estimated avg. gas vented = 2 scf/insp
N/A	SCG Territory	18	0.36	Meter/Orifice 20 scf/each
N/A	SoCalGas Territory	46	0.92	Relief Valve Inspection at Transmission M&R Stations - Estimated avg. gas vented = 20 scf/insp
N/A	SoCalGas Territory	1	0.03	Drips 30scf/ each
N/A	SoCalGas Territory	8	0.016	Analyzers & GCs 2scf/inspection
N/A	SoCalGas Territory			Actuators/Controllers - Estimated avg. gas vented = 2 scf/insp
		521	1.042	

11.05

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Transmission M&R Station Blowdowns:

ID	Geographic Location	Number of Blowdown Events	Annual Emissions (Mscf)	Explanatory Notes / Comments
N/A	92555	1	1,455	Pipeline relocation
N/A	SCG Territory	56	1	Relief Valve Inspection at Transmission M&R Stations - Estimated avg. gas vented = 20 scf/insp
N/A	SCG Territory	9	0	Drips 30scf/ each
N/A	SCG Territory	36	1	Meter/Orifice 20 scf/each
N/A	SoCalGas Territory	151	5	Filter Changeout or Filter Inspection w/parts replacement - Estimated avg. gas vented = 30 scf/ea
N/A	SoCalGas Territory	2	0	Gas Chromatograph
N/A	SoCalGas Territory	411	12	Actuators/Controllers - Estimated avg. gas vented = 2 scf/insp
			1,473.70	

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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&E station

[illegible]

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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-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:										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)	
7046911	93311	B3	V	Misc.		5/16/2019	6/9/2020	161.00	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	3/28/2019	
7129917	93311	B3	P	Misc.		9/24/2019		366.00	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	9/18/2019	
7223050	NA	A3	V	Misc.		1/7/2020	1/8/2020	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	9/17/2019	
7307490	90103	A3	P	Misc.		4/3/2020	4/3/2020	40.00	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	2/24/2020	
7309840	92801	A3	C	Misc.		4/16/2020	4/16/2020	21.00	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	3/27/2020	
7319462	91382	A3	C	Misc.		5/6/2020	5/6/2020	55.00	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	3/13/2020	
7384925	92239	A3	C	Misc.		7/9/2020	7/13/2020	150.00	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	2/15/2020	
7384925	92239	A3	C	Misc.		7/9/2020	7/13/2020	150.00	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	2/15/2020	
7422393	92555	A3	C	Misc.		9/2/2020	9/2/2020	132.00	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	4/24/2020	
7438407	92257	A3	V	Misc.		10/10/2020	10/10/2020	24.00	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	9/17/2020	
7448731	93311	B3	P	Misc.		9/17/2020	9/23/2020	178.00	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	3/30/2020	
7457817	92821	A3	V	Misc.		9/21/2020		177.00	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	7/8/2020	
7484432	92626	A3	C	Misc.		11/9/2020	11/9/2020	77.00	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	8/25/2020	
7486639	92239	A3	C	Misc.		11/14/2020	11/14/2021	106.00	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	9/17/2020	
7490465	91392	B3	V	Misc.		11/24/2020		120.00	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	9/3/2020	
7508890	90720	A3	V	Misc.		10/24/2020		112.00	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	9/11/2020	

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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	