

SDG&E, July 1st, 2024

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 - 2024 June Report  
Appendix 2; Rev. 03/29/2024

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
14	T	1554.8	21,767	This includes stations that have Transmission to Distribution connections
2	F	12.2	24	Tap Facilities - Transmission Maintained. The two taps are blind-flanged and not connected to customers.
<b>Sum Total</b>			<b>21,792</b>	

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**Transmission M&R Station Blowdowns:**

ID	Geographic Location	Number of Blowdown Events	Annual Emissions (Mscf)	Explanatory Notes / Comments
NA	SDG&E Territory	14	0.28	Pressure Limiting Station Annual Inspection - Estimated avg. gas vented = 20 scf/insp
NA	SDG&E Territory	41	0.82	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)
NA	SDG&E Territory	51	1.53	Filter Changeout or Filter Inspection w/parts replacement - Estimated avg. gas vented = 30 scf/ea
NA	SDG&E Territory	6	0.15	Analyzers (25 scf/inspection)
NA	SDG&E Territory	54	0.108	Controllers - Estimated avg. gas vented = 2 scf/insp
NA	SDG&E Territory	55	0.11	Actuators - Estimated avg. gas vented = 2 scf/insp
NA	SDG&E Territory	1	0.03	Drips (30 scf/insp)
NA	SDG&E Territory	7	0.014	Linebreaks - Estimated avg. gas vented = 2 scf/insp
NA	SDG&E Territory	3	0.06	Meters (20 scf/insp)
		<b>Sum Total</b>	<b>3</b>	

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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 2023. 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
24	SDG&E	A3	P	I	Misc.	365	NA	Intermittent Bleed Pneumatic Device emissions are included in Trans-to-trans Emission Factor of 1,554.8 Mscf/Station/Year
<b>Sum Total</b>							<b>0</b>	

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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 2023. 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:**

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 (DD/MM/YYYY)
<b>Sum Total</b>										<b>0</b>		

**Appendix 2; Rev. 03/29/2024**

<b>Header column "Comment" boxes displayed below for reference.</b>	
<b>Column Heading</b>	<b>Description and Definition of Required Contents (IF not self-explanatory)</b>
<b>Station Leaks and Emissions</b>	
<b>Number of Stations</b>	
<b>Station Classification</b>	D = direct sale T = transmission-to-transmissions interconnect  As revised in 2021, enter Farm Taps in Appendix 5
<b>Emission Factor (Mscf/yr)</b>	
<b>Annual Emission (Mscf)</b>	
<b>Explanatory Notes / Comments</b>	
<b>Blowdowns</b>	
<b>ID</b>	
<b>Geographic Location</b>	GIS, zip code, or equivalent
<b>Number of Blowdown Events</b>	
<b>Annual Emissions (Mscf)</b>	
<b>Explanatory Notes / Comments</b>	
<b>Component Vented Emissions</b>	
<b>Geographic Location</b>	GIS, zip code, or equivalent
<b>Station Classification</b>	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
<b>Device Type</b>	C = connector O = open-ended line M = meter P = pneumatic device PR = pressure relief valve V = valve
<b>Bleed Rate</b>	L = low bleed I = intermittent bleed H = high bleed NA = not applicable
<b>Manufacturer</b>	
<b>Number of Days Emitting</b>	Because the emissions are a factor of design or function, these emissions counted for the entire year.

<b>Annual Emissions (Mscf)</b>	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.
<b>Explanatory Notes / Comments</b>	
<b>Component Fugitive Leaks</b>	
<b>ID</b>	
<b>Geographic Location</b>	GIS, zip code, or equivalent
<b>Station Classification</b>	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
<b>Device Type</b>	C = connector O = open-ended line M = meter P = pneumatic device PR = pressure relief valve V = valve
<b>Bleed Rate</b>	L = low bleed I = intermittent bleed H = high bleed NA = not applicable
<b>Manufacturer</b>	
<b>Discovery Date (MM/DD/YY)</b>	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.
<b>Repair Date (MM/DD/YY)</b>	Date that the component repair stopped the leak. Any associated blowdowns as a result of the repair should be included in the blowdowns tab.
<b>Number of Days Leaking</b>	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.
<b>Emission Factor (Mscf/day/dev)</b>	
<b>Annual Emissions (Mscf)</b>	
<b>Explanatory Notes / Comments</b>	