

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 B, Rev. 03/29/2024

Notes:
 Please round all natural gas emissions to nearest Mscf.
 As a reminder, please use the latest version of each of the worksheets.

Summary Tables:

System Category	Emission Source Categories	Fugitive or Vented	For Informational and Reference Purposes Only: Original 2015 Baseline Emissions (Mscf)	Approved 2015 Baseline Emissions (Mscf)	Proposed Adjusted 2015 Baseline Emissions (Mscf)	2022 Total Annual Volume of Leaks & Emissions (Mscf)	2022 Total Annual Count of Leak & Emission Items	2023 Total Annual Volume of Leaks & Emissions (Mscf)	2023 Total Annual Count of Leak & Emission Items	Emission Change For Year Over Year Comparison from 2022 to 2023 (Mscf)	Percentage Change For Year Over Year Comparison from 2022 to 2023	Count Change For Year Over Year Comparison from 2022 to 2023	Percentage Change For Year Over Year Comparison from 2022 to 2023	Emission Change For Year Over Year Comparison from 2015 to 2023 (Mscf)	Percentage Change For Year Over Year Comparison from 2015 to 2023	Explanation for Significant Percentage Change for Year Over Year Comparison from 2022 to 2023
Transmission Pipelines	Digsite Leaks	Fugitive	87	87	NA	81	Total System Manager: 213	81	Total System Manager: 213	-	2.3%	1	2.3%	-4	(4.6%)	
	All Damages	Fugitive	0	0	NA	0	Number of emission items: 0	0	Number of emission items: 0	-	-	-	-	0	0.0%	
	Blowdowns	Vented	3,426	3,426	NA	181	Number of blowdown events: 239	1,318	Number of blowdown events: 247	1,137	628.2%	6	3.3%	2,108	(61.5%)	The increase in emissions year-over-year can be attributed to one large blowdown that contributed approximately 1,200 Mscf.
	Component Venting Emissions	Vented	0	0	NA	589	Number of devices: 28	589	Number of devices: 28	-	0.0%	-	0.0%	593	-	
	Component Fugitive Leaks	Fugitive	N/A	N/A	NA	0	Number of leaks: 1	0	Number of leaks: 0	NA	NA	(1)	(100.0%)	NA	NA	
Transmission M&B Stations	Odors	Vented	2	2	NA	89	Number of units: 27	86	Number of units: 27	(3)	(3.4%)	-	0.0%	84	9.4%	Odorizer emissions fluctuate depending on the level of odorant in the gas and the volume of gas flow.
	Station Leaks & Emissions	Fugitive	22,236	22,236	NA	21,292	Number of facilities: 46	21,762	Number of facilities: 46	470	2.2%	-	0.0%	424	(1.9%)	Emissions increased year-over-year because inspection activities increased year-over-year.
Transmission Compressor Stations	Blowdowns	Vented	31	31	NA	2	Number of blowdown events: 161	3	Number of blowdown events: 232	1	50.0%	72	44.1%	-28	(90.3%)	Emissions decreased year-over-year because the total pressurized operating hours decreased and the average pressurized operating mode emission factor decreased during 2023 relative to 2022.
	Compressor Emissions	Vented	1,262	1,262	NA	2,074	Number of compressors: 10	1,387	Number of compressors: 10	125	(9.9%)	-	0.0%	125	9.9%	Emissions decreased year-over-year because the total pressurized operating hours decreased and the average pressurized operating mode emission factor decreased during 2023 relative to 2022.
	Compressor Leaks	Fugitive	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Blowdowns	Vented	3,956	3,956	NA	963	Number of blowdown events: 284	578	Number of blowdown events: 180	(385)	(49.0%)	(104)	(16.6%)	-3,378	(85.4%)	Blowdown counts and emissions are a function of activity level. Blowdown volume varies by activity, depending on the type of work performed. The reduction in blowdown emissions year-over-year can be attributed to a reduction in blowdown events.
	Component Venting Emissions	Vented	NA	887	NA	336	Number of devices: 16	336	Number of devices: 16	-	0.0%	-	0.0%	451	(62.1%)	
Distribution Main & Service Pipelines	Component Fugitive Leaks	Fugitive	1,085	1,112	1,512	580	Number of leaks: 21	502	Number of leaks: 42	(88)	(8.0%)	(31)	(13.4%)	806	(69.7%)	The decrease in emissions can be attributed to the continued efforts to detect and repair leaks >1,000 ppm during quarterly O&M Oil and Gas Rate surveys.
	Storage Tank Leaks & Emissions	Vented	3	3	NA	0	Number of emission items: 5	0	Number of emission items: 0	(5)	(100.0%)	(5)	(100.0%)	-4	(100.0%)	Emissions decreased year-over-year because there was not any leak testing during 2023.
	Pipeline Leaks	Fugitive	33,730	31,730	37,404	11,079	Number of known leaks: 707 Estimated number of unknown leaks: 113 Total number of leaks: 820	11,079	Number of known leaks: 580 Estimated number of unknown leaks: 119 Total number of leaks: 699	(920)	(7.7%)	(920)	(16.8%)	-27,651	(82.0%)	The year-over-year reduction in emissions can be attributed to the testing of leak survey cycles. Leak surveys were increased from 5 to 3 years on protected steel and state of the art plastic during 2020, and 2023 is the first year that the cycles have finished.
	All Damages	Fugitive	8,894	8,894	NA	7,845	Number of damages: 687	6,707	Number of damages: 320	(1,138)	(14.9%)	(72)	(7.8%)	-2,187	(24.6%)	The year-over-year decrease in emissions can be attributed to reductions in Excavation and Natural Force damages. SDG&E's Damage Prevention Program is helping to reduce excavation damages.
Distribution M&B Stations	Blowdowns	Vented	45	45	NA	41	Number of blowdown events: 296	51	Number of blowdown events: 322	10	24.4%	25	8.5%	6	13.3%	The increase in emissions can be attributed to an increase in the number of blowdowns year-over-year.
	Component Venting Emissions	Vented	0	0	NA	0	Number of emission items: 0	0	Number of emission items: 0	-	-	-	-	0	-	
	Component Fugitive Leaks	Fugitive	0	0	NA	0	Number of leaks: 0	0	Number of leaks: 0	-	-	-	-	0	-	
	Station Leaks & Emissions	Fugitive	80,978	80,978	NA	70,595	Number of stations: 465	80,483	Number of stations: 467	8,893	14.0%	4	0.9%	485	(0.6%)	Emissions increased year-over-year because the station count increased and the emission estimates are completed using a population-based methodology.
Customer Meters	All Damages	Fugitive	NA	NA	NA	0	Number of damages: 0	0	Number of damages: 0	-	-	-	-	NA	NA	
	Blowdowns	Vented	16	16	NA	17	Number of blowdowns: 2,779	18	Number of blowdowns: 2,867	1	5.9%	88	3.2%	2	(12.5%)	Distribution M&B blowdowns are a function of inspection activity level and can vary year-over-year. There were more inspections and more blowdown events in 2023 relative to 2022.
	Component Emissions	Vented	NA	0	NA	0	Number of emission items: 0	0	Number of emission items: 0	-	-	-	-	0	-	
	Component Leaks	Fugitive	NA	NA	NA	0	Number of leaks: 28	0	Number of leaks: 74	NA	NA	46	164.3%	NA	NA	
Customer Meters	Meter Leaks	Fugitive	126,261	126,261	NA	131,032	Number of leaks: 5,184 Number of meters: 909,907	132,317	Number of meters: 914,999	723	0.6%	1,089	0.6%	6,056	4.8%	Emissions increased year-over-year because the number of meters increased and the emission estimates are completed using a population-based methodology.
	All Damages	Fugitive	NA	NA	NA	1,665	Number of damages: 138	1,359	Number of damages: 176	(306)	(18.3%)	(78)	(19.3%)	NA	NA	The year-over-year decrease in emissions can be attributed to a decrease in the number of damages that occurred during 2023 relative to 2022.
Underground Storage	Vented Emissions	Vented	54	54	NA	63	Number of blowdown events: 66,469	56	Number of blowdown events: 10,896	(7)	(11.1%)	(6,243)	(10.4%)	2	3.7%	The year-over-year decrease in emissions can be attributed to a decrease in blowdowns during 2023 relative to 2022.
	Storage Leaks & Emissions	Fugitive	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Compressor Venting Emissions	Vented	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Blowdowns	Vented	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Underground Storage	Component Venting Emissions	Vented	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Compressor and Component Fugitive Leaks	Fugitive	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Deliverable Vent Emissions	Fugitive	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Deliverable Vent Emissions (Dispersions)	Fugitive	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Total			282,046	281,360	250,505			258,734		8,148	3%		NA	(28.0%)	(18,3%)	

Legend
 Using proposed values to estimate reductions relative to baseline per FPCU staff advice
 Revised on August 30, 2024

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System Wide Leak Rate Data

1/1/2023 - 12/31/2023

The highlighted cells show the volumes that are summed together as the throughput for calculating the system wide leak rate.

Gas Storage Facilities:

Average Close of the Month Cushion Gas Storage Inventory (Mscf)	Average Close of the Month Working Gas Storage Inventory (Mscf)	Total Annual Volume of Injections into Storage (Mscf)	Total Annual Volume of Gas Used by the Gas Department (Mscf)	Total Annual Volume of Withdrawals from Storage (Mscf)	Explanatory Notes / Comments
NA	NA	NA	NA	NA	

Transmission System:

Total Annual Volume of Gas Used by the Gas Department (Mscf)	Total Annual Volume of Gas Transported to or for Customers* in State (Mscf)	Total Annual Volume of Gas Transported to or for Customers* out of State (Mscf)	Total Annual Volume of Gas Transported to utility-owned or third-party storage fields for injection into storage (Mscf)	Explanatory Notes / Comments
176,850	94,525,050	0	0	

Distribution System:

Total Annual Volume of Gas Used by the Gas Department (Mscf)	Total Annual Volume of Gas Transported to or for Customers* in State (Mscf)	Total Annual Volume of Gas Transported to or for Customers* out of State (Mscf)	Explanatory Notes / Comments
98,660	94,593,064	0	

*The term customers includes anyone that the utility is transporting gas for, including customers who purchase gas from the utility.

Customers can be anyone including residential, businesses, other utilities, gas transportation companies, etc.

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Summary Tables:

Natural Gas Properties	Average Mole Percent	Explanatory Notes / Comments
Methane	95.08	Rainbow
Carbon Dioxide	0.45	Rainbow
Ethane	3.23	Rainbow
C3+	0.12	Rainbow
C6+	0.002	Rainbow
Oxygen	0.2	Estimated up to limit, Not Tested
Hydrogen		Not Tested
Sulfur	0.0003	Rainbow
Water	0.169	Estimated to limit
Carbon Monoxide		Not Tested
Particulate Matter		Not Tested
Inert Gas	1.57	Rainbow
Odorant	0.000107	Estimated guideline rate