SoCalGas, June 15th, 2022 Rulemaking (R.) 15-01-008 to Adopt Rules and Procedures Governing Commission Regulated Natural Gas Figelines and Facilities to Reduce Natural Gas Leaks Consistent with Senate Bill 1371, Leno. In Response to Data Request, R15-01-008 2022 June Report Appendix 8, Rev. 03/81/22

Summary Tables:

Under Journal Java Falsk Component Emissions Vented N/A 5.281 2.773 Number of devices: 177 2.460 Number of devices: 177 Number of devices:															
Part	System Categories	Emission Source Categories	Fugitive or Vented	For Reference Only: 2015 Baseline Emissions (Mscf)	2015 Proposed Adjusted Baseline Emissions (Mscf)	2020 Total Annual Volume of Leaks & Emissions (Mscf)	2020 Total Annual Count of Leak & Emission Items	Volume of Leaks &	2021 Total Annual Count of Leak & Emission Items	Comparison from 2020 to 2021	Commendant from	Year Over Year Comparison from	Comparison from	Comparison from Proposed Adjusted 2015 to 2021 for Year Over Year Comparison from Proposed Adjusted	Explanation for Significant Percentage Change for Year Over Year Comparison from 2019 to 2010
# Manual Property of the prope															-Transmission pipeline acquisition from Pacific Gas & Electric
Part		Pipeline Leaks	Fugitive	1,324	1,324			1,292		37	3.0%	99	3.0%	-32 (2.4%)	New installed line
Marie Mari		All Damages	Fugitive	0	0	9,692	Number of emission items: 2	24	Number of emission items: 1	(9,668)	N/A	(1	N/A	24 N/A	Emission is due to a third-party eccavation damage. Blowdown emissions: are a function of activity level. Blowdown volume varies by activity, depending on the type of work performed. Emission reductions can be attributed to:
Part	Transmission Pipelines	Blowdowns	Vented	199,970	199,970	76,006	Number of blowdown events: 1,162	12,757	Number of blowdown events: 1,603	(63.749	(83.7%)	441	38.0%	.187.713 (93.6%)	implementation of cross compressions and gas capture technologies. -Revised internal policies and improved planning and constitution from Project Managers and Planners have resulted in decrease of average volume of planned high pressure blowdown events. -SoCAISas bundled work on high pressure lines when it was practical and safe to do so and coordinated blowdown reduction for high-pressure projects across departments.
Mathematical Personal Person					8,182			1,198		(5,172	(81.2%)	(246	(81.2%)		The accroses in resistors and number of devices can be attributed to: Justice self-incomparity of it ministrates highlic components, residing in more accurate inventory of component count Asset werlification projects of Transmission Pepiles components, resulting in capabilities to improve identification of services is, monitor components. The monitor component services as a previous years, Solidaria reported count intended service and monitor components without previous years, Solidaria reported count intended services and monitor components without
Marie					2 434			2 727			N/A	(5			
March Marc		Station Leaks & Emissions		340 142	110.796	108.741	Number of facilities: 568	109 930		101	3.9%	51	21.1%	293 12.0%	The decrease in number of facilities is due to Asset verification projects of Transmission MR
Marie Mari	Transmission M&R Stations	Blowdowns	Fugitive Vented			11		289		1,189		(29	(5.1%)	-366 (0.3%)	Blowdowns emissions are a function of activity level. Blowdown volume varies by activity, depending on the type of work performed. The increase in emission can be attributed to tie-in
Marian		Compressor Emissions	Vented	34,810		27,851		22,334				(48	(5.3%) 0.0%	194 204.2% -12,476 (35.8%)	projects in the stations.
Part						N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		Blowdown emissions are a function of activity level. Blowdown volume varies by activity.
## Part	Transmission Compressor Stations				1,200						32.9%	(216	(24.5%)	15,541.00 213.8%	decending on the twee of work performed. The decrease in emissions and number of devices are due to asset verification projects of Transmission Compressor Station components, resulting in a more accurate component
March Marc		Component Leaks		8,430	10,784	2,527	Number of leaks: 153	1,587	Number of leaks: 124	(2,418	(45.3%)	(115	(45.3%)	N/A N/A	CARB Oil & Gas Rule decreased the leak detection threshold from 10,000 ppm to 1,000 ppm. Consequently, leaks > 10,000 ppm (Appendix 9 threshold) count is lower due to addressing and
Maria Mari				0	275	160	Number of emission items: 5	165	Number of emission items: 5	(940	(37.2%)	(29	(19.0%)		repenning search writin detection at 1,000 phin.
## Properties Pr		Storage Tank Leaks & Emissions		-							0.0%		0.0%	(110.00) N/A	
Marche		Pipeline Leaks	Fugitive	797,426	576,261	545,429	Estimated number of unknown leaks: 798	465,687	Estimated number of unknown leaks: 1 059	(79.742	(14,6%)	(2.070	(10.0%)	(110.574.09) (19.2%)	-SoCalGas's effort to reduce leak inventory. SoCalGas achieved 24 months leak inventory, meaning no leak older than 24 was carried to 2022increased the capabilities of Decision Tree (DT) approach. DT approach helped identifying large emitting leaks and accelerating their repairs time based on their measured flow. Leaks that meet
## Application	Distribution Main & Service Pipelines	All Damages	Fugitive	78,646	78,646	73,665	Number of damages: 3,455	68,708	Number of damages: 3,346		(6.7%)	(109	(3.2%)		Emissions associated with damages vary based on damage severity, damaged asset dimensions, and pipeline pressure.
Part		Blowdowns	Vented		,,220	221		182		(39	(17.7%)			(4,546.00) (96.2%)	
State 1965 1975							Number of emission items: 0 Number of leaks: 0	0	Number of emission items: 0 Number of leaks: 0						
District Mark Tation Figure Figur							Number of stations: NA	N/A	Number of stations: NA					- aDIV/0!	The population-based emissions calculation is included in Appelle 5 for informational purposes only
Procedure Veneral Section Se		All Damages		N/A	NA.	0	Number of damages: 0	0	Number of damages: 0		-	-			
Component table	Distribution M&R Stations	Blowdowns	Vented	94	94	114	Number of blowdowns: 24,585	107	Number of blowdowns: 22,623				-		Blowdown emissions are a function of activity level. Blowdown volume varies by activity, depending on the type of work performed
Mort Fals		Component Emissions	Vented	N/A N/A	295		Number of emission items:14	420		(2.007	0.0%	(1,902	[8.0%]	15.00	
Pagitive M. Demands Pagitive M. Demands M. Dema	Customer Meters	Meter Leaks									(22.6%)				emissions. SoCalGas has the leaker-based data and information for 2021 & 2020. So to allow apples-to-apples comparability and data availability, the 2020 Data columns have been updated
Vented Efficiations Vented Efficiations Vented Efficiations Vented 10,912 10,812		All Damages		N/A			Number of damages: 1,354	16,031	Number of damages: 1411		(3.3%)	30,616 57		(236,943.00) (38.2%)	
Composent Finistories Vented 18,659 1,					2,063	666		902		236		5.160	1.5%	(1.161.00) (56.3%)	enowoown emissions are a function of activity level. Blowdown volume varies by activity, depending on the twoe of work performed.
Compressor Leaks No. No.	Underground Storage				5,146 84.609	59 1.489				35 4.981		. (3	0.0%	(97.0%) (97.0%) (92.4%)	
Underground Storage Undergrou		Compressor Leaks	Fugitive	N/A	NA.	This worksheet was combined with Component Leaks worksheet in 2020 template.		combined with Component Leaks worksheet in 2020							
Language transition with region of the control of t		Blowdowns	Vented	10,812	10,812	1,783	Number of blowdown events: 3,054	2,154	Number of blowdown events: 3,791	371	20.8%	737	24.1%	(8,658.00) (80.1%)	depending on the type of work performed. There was more component inspection events in 2021 than 2020
Component Leaks 107 21,989 4,073 Number of leaks: 224 2,566 Number of leaks: 235 Consequently, leaks > 10,000 ppm (Appendix 9 threshold) count is lower due to addressing and Fagilities Consequently, leaks > 10,000 ppm (Appendix 9 threshold) count is lower due to addressing and Pagilities Consequently, leaks > 10,000 ppm (Appendix 9 threshold) count is lower due to addressing and Pagilities Consequently, leaks > 10,000 ppm (Appendix 9 threshold) count is lower due to addressing and Pagilities Consequently, leaks > 10,000 ppm (Appendix 9 threshold) count is lower due to addressing and Pagilities Consequently, leaks > 10,000 ppm (Appendix 9 threshold) count is lower due to addressing and Pagilities Consequently, leaks > 10,000 ppm (Appendix 9 threshold) count is lower due to addressing and Pagilities Consequently, leaks > 10,000 ppm (Appendix 9 threshold) count is lower due to addressing and Pagilities Consequently, leaks > 10,000 ppm (Appendix 9 threshold) count is lower due to addressing and Pagilities Consequently, leaks > 10,000 ppm (Appendix 9 threshold) count is lower due to addressing and Pagilities Consequently, leaks > 10,000 ppm (Appendix 9 threshold) count is lower due to addressing and Pagilities Consequently, leaks > 10,000 ppm (Appendix 9 threshold) count is lower due to addressing and Pagilities Consequently, leaks > 10,000 ppm (Appendix 9 threshold) count is lower due to addressing and Pagilities Consequently, leaks > 10,000 ppm (Appendix 9 threshold) count is lower due to addressing and Pagilities Consequently, leaks > 10,000 ppm (Appendix 9 threshold) count is lower due to addressing and Pagilities Consequently, leaks > 10,000 ppm (Appendix 9 threshold) count is lower due to addressing and Pagilities Consequently, leaks > 10,000 ppm (Appendix 9 threshold) count is lower due to addressing and Pagilities Consequently, leaks > 10,000 ppm (Appendix 9 threshold) count Consequently, leaks > 10,000 ppm (Appendix 9 threshold) Consequently Consequent		Component Emissions	Vented	N/A	5,281	2,773	Number of devices: 177	2,460	Number of devices: 117	(212	(11.290)	(en	(55 ow)		Emissions reductions can be attributed to decommissioning components, converting components to operate via compressed air.
Fig006 13,402 0 Number of facilities: 4 0 Number of fa		Component Leaks		107	21,989	4,073	Number of leaks: 284	2,956	Number of leaks: 223	(513	(11.5%)	(60	(33.9%)		CARB Oil & Gas Rule decreased the leak detection threshold from 10,000 ppm to 1,000 ppm. Consequently, leaks > 10,000 ppm (Appendix 9 threshold) count is lower due to addressing and
Hinesual aree leaks (Description) 3,630,000		Dehydrator Vent Emissions	Fugitive Fugitive	13,402	0	0	Number of facilities: 4	0	Number of facilities: 4	(1,117	(27.4%)	(61	(21.5%)	(19,033.00) (86.6%)	A . A
	Unusual Large Leaks		Total	3,630,000 6,409,851	1,797,141	1.309.873	N/A	1.134.633	N/A	1175 346	,126	p/A	N/A	(662 508 09)	

SoCalGas, June 15,2022

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In Response to Data Request, R15-01-008 2022 June Report Appendix 8; Rev. 03/31/22

Summary Tables:

Natural Gas Properties	Average Mole Percent	Explanatory Notes / Comments
Methane	94	Interstate supplies
Carbon Dioxide	0.73	Interstate supplies
Ethane	3.91	. Interstate supplies
C3+	0.24	Interstate supplies
C6+	0.006	Interstate supplies
Oxygen	0.2	Estimated to limit, Not Tested at all locations
Hydrogen		Not Tested
Sulfur	0.00028662	Estimated to include odorant
Water	0.0147	Estimated to Limit, Not Tested at all locations
Carbon Monoxide		Not Tested
Particulate Matter		Not Tested
Inert Gas	1.7	Interstate supplies
Odorant	0.00016	Estimated to guideline rate

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System Wide Leak Rate Data

1/1/2022 - 12/31/2022

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
141,087,404	72,876,793	59,089,681	570,920	51,514,805	

Transmission System:

Department (Mscf)	of Gas Transported to or for Customers* in State (Mscf)	Total Annual Volume of Gas Transported to or for Customers* out of State (Mscf)	storage fields for injection into storage (Mscf)	Explanatory Notes /
1,583,385	875,220,427	12,852,193	59,089,681	

Distribution System:

Total Annual Volume of Gas Used by the Gas Department (Mscf)	of Gas Transported to	Total Annual Volume of Gas Transported to or for Customers* out of State (Mscf)	Explanatory Notes / Comments
275,570	745,809,310	0	

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

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