

SoCalGas, June 15th, 2023
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 - 2023 June Report
Appendix 1; Rev. 03/30/2023

Notes:
 Emissions included in the Report are based on miles of transmission pipeline. Therefore provide the miles of transmission pipeline in your system here.
 The following data on transmission pipeline leaks is for information purposes and will not be used to report transmission pipeline leak emissions this year.
 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.

Transmission Pipeline Leaks:

ID	Geographic Location	Pipe Material	Pipe Size (nominal)	Pipe Age (months)	Pressure (psi)	Leak Grade	Above Ground or Below Ground	Discovery Date (MM/DD/YY)	Repair Date (MM/DD/YY)	Scheduled Repair Date (MM/DD/YY)	Reason for Not Scheduling a Repair	Number of Days Leaking	Emission Factor (Mscf/Mile/Year)	Annual Emissions (Mscf)	Explanatory Notes / Comments
Transmission	SoCalGas Territory	PB	All	All	All	All	All	N/A	N/A	N/A	N/A	N/A	0.38		1 Mile - For 2022, the INGAA Greenhouse Gas Emission Estimation Guidelines for Natural Gas Transmission and Storage - Volume 1 GHG Emission Estimation Methodologies and Procedures (September 28, 2005 - Revision 2) - Table 4-4 study provides the best available estimate of emissions for Transmission Pipeline, which includes emissions from Flanges and Valves.
Transmission	SoCalGas Territory	PC	All	All	All	All	All	N/A	N/A	N/A	N/A	N/A	0.38		0.4 3,384 Miles - For 2022, the INGAA Greenhouse Gas Emission Estimation Guidelines for Natural Gas Transmission and Storage - Volume 1 GHG Emission Estimation Methodologies and Procedures (September 28, 2005 - Revision 2) - Table 4-4 study provides the best available estimate of emissions for Transmission Pipeline, which includes emissions from Flanges and Valves.
													Sum Total	1,271	

SoCalGas, June 15th, 2023

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 - 2023 June Report
 Appendix 1; Rev. 03/30/2023

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

Transmission Pipeline Damage (3rd party dig-ins, natural disasters, etc.):

ID	Geographic Location	Damage Type	Pipe Material	Pipe Size (nominal)	Pipe Age (months)	Pressure (psi)	Leak Grade	Above Ground or Below Ground	Discovery Date (MM/DD/YY)	Repair Date (MM/DD/YY)	Number of Days Leaking	Emission Factor (Mscf/Day)	Annual Emissions (Mscf)	Explanatory Notes / Comments
8125251	92356	O	PC	36	744	824	AH	Above Ground	12/3/2022	12/4/2022	2	25,100	Leak was repaired within 24 hours	
Sum Total												25,100		

SoCalGas, June 15th, 2023

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 - 2023 June Report
Appendix 1; Rev. 03/30/2023

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.

The emissions reported under the column Methane Abatement (Mscf) are for information purposes only, and should be separated from the emissions reported under the column for Annual Emissions (Mscf).

Transmission Pipeline Blowdowns:

ID	Geographic Location	Number of Blowdown Events	Reason	Emission Reduction Strategy	Annual Emissions (Mscf)	Explanatory Notes / Comments	Methane Abatement (Mscf)
BD-2021-2	93311	1	R	XC	0.5	Pipeline blowdown	82.0
BD-2021-216	93013	1	O	M (D / XC)	195.1	Relocation for County's street improvement project	3,927.8
BD-2021-223	93001	1	R	XC	24.3	Pipeline blowdown	297.5
BD-2021-304	92880	1	M	PB	41.5	Pipeline blowdown	4,220.7
BD-2022-317	93021	1	R	D	868.3	Pipeline blowdown	10,881.3
BD-2022-325	92806	1	R	M (D / FTO)	14.6	Pipeline blowdown	1,266.0
BD-2022-330	92332	1	IM	XC	497.6	Pipeline blowdown	8,416.3
BD-2022-331	92332	1	IM	XC	539.9	Pipeline blowdown	11,799.9
BD-2022-332	92363	1	IM	M (XC / PB)	734.0	Pipeline blowdown	12,415.1
BD-2022-337	93254	1	R	GC	3.3	Pipeline blowdown	110.4
BD-2022-341	90245	1	R	D	1.6	Pipeline blowdown	43.6
BD-2022-342	90245	1	R	XC	1.6	Pipeline blowdown	43.7
BD-2022-424	92014	1	R	M (D / XC / PB)	10.8	Pipeline blowdown	266.5
BD-2022-426	92356	1	R	XC	1,063.2	Pipeline blowdown	13,323.3
BD-2022-439	92363	1	R	XC	854.3	Pipeline blowdown	12,634.8
BD-2022-550	93252	1	M	XC	57.1	Pipeline blowdown	496.8
BD-2022-626	92371	1	M	XC	1,313.6	Pipeline blowdown	24,029.9
BD-2022-675	93012	1	R	GC	237.3	Pipeline blowdown	748.9
BD-2022-677	91316	1	R	XC	77.8	Pipeline blowdown	3,087.6
BD-2023-746	92880	1	M	M (D / XC)	142.5	Pipeline blowdown	12,245.7
BD-2023-748	92880	1	M	M (D / XC)	37.7	Pipeline blowdown	1,464.6
BD-2023-749	92880	1	R	M (XC / GC)	26.7	Pipeline blowdown	1,624.1
BD-22-2	92504	1	IM	XC	27.2	Pipeline blowdown	205.8
BD-22-3	92539	1	PR	XC	1,416.4	Pipeline blowdown	28,551.2
BD-22-4	92553	1	IM	XC	737.6	Pipeline blowdown	5,733.2
BD-22-7	92539	1	IM	XC	612.2	Pipeline blowdown	2,070.8
BD-22-11	92539	1	PR	XC	1,596.0	Pipeline blowdown	25,434.5
BD-22-24	92563	1	R	XC	302.3	Pipeline blowdown	3,034.1
BD-22-33	93245	1	R	XC	0.0	Pipeline blowdown	9.0
BD-22-34	93117	1	R	XC	1.6	Pipeline blowdown	302.3
BD-22-35	93245	1	R	XC	0.0	Pipeline blowdown	3.5
BD-22-39	90221	1	IM	XC	2.1	Pipeline blowdown	386.1
BD-22-41	93245	1	R	XC	0.0	Pipeline blowdown	9.0
BD-22-44	93245	1	R	XC	0.0	Pipeline blowdown	3.5
BD-22-47	90221	1	IM	XC	20.8	Pipeline blowdown	628.5
BD-22-52	91384	1	IM	XC	123.4	Pipeline blowdown	10,662.3
BD-22-56	93003	1	IM	XC	0.0	Pipeline blowdown	21.7
BD-22-57	93250	1	IM	XC	0.0	Pipeline blowdown	32.5
BD-22-58	91321	1	IM	XC	88.3	Pipeline blowdown	10,700.7
BD-22-60	93111	1	IM	XC	0.0	Pipeline blowdown	6.5
BD-22-61	91321	1	IM	XC	92.1	Pipeline blowdown	7,357.8
BD-22-66	93117	1	IM	XC	0.0	Pipeline blowdown	4.9
BD-22-70	93313	1	IM	XC	0.0	Pipeline blowdown	102.8
BD-22-74	93117	1	IM	XC	0.0	Pipeline blowdown	14.7
BD-22-80	91321	1	IM	XC	88.5	Pipeline blowdown	5,158.7
BD-22-81	93036	1	R	XC	166.7	Pipeline blowdown	1,836.1
BD-22-85	92563	1	IM	XC	263.8	Pipeline blowdown	2,917.9
BD-22-90	93013	1	IM	XC	4.0	Pipeline blowdown	826.1
BD-22-94	93013	1	IM	XC	17.7	Pipeline blowdown	470.7
BD-22-95	92225	1	IM	XC	2,494.8	Pipeline blowdown	96,120.7
BD-22-97	93013	1	IM	XC	5.5	Pipeline blowdown	138.8
BD-22-108	90504	1	IM	XC	105.2	Pipeline blowdown	7,637.1
BD-22-113	93252	1	R	XC	6.5	Pipeline blowdown	496.8
BD-22-116	92211	1	R	XC	1,170.9	Pipeline blowdown	15,696.4
BD-22-119	92201/92555	1	IM	XC	455.5	Pipeline blowdown	3,017.6
BD-22-122	92821	1	IM	XC	141.8	Pipeline blowdown	12,583.2
BD-22-129	91436	1	R	XC	1,809.2	Pipeline blowdown	1,286.1
NA	Various Locations	4			0.1	Meter Inspections - 25 scf/inspection	
NA	Various Locations	3			0.0	Analyzers & Gas chromatograph 2 scf/inspection	
NA	Various Locations	422			12.7	Filter Change-outs or Filter Inspections w/parts replacement - Estimated avg. gas vented = 30 scf/inspection	
NA	Various Locations	14			0.3	Relief Valve Inspections at Transmission Pipeline - Estimated avg. gas vented = 20 scf/inspection	

NA	Various Locations	262	0.5	LineBreaks - Estimated avg. gas vented = 2 scf/insp
NA	Various Locations	86	71.7	Drips - Pipeline Drip Accumulation - Estimated avg. gas vented = 10,000 cfh for 5min/device
NA	Various Locations	507	1.0	Pneumatic Device Annual Inspections (actuators & Controllers) - Estimated avg. gas vented = 2 scf/insp
NA	Various Locations	820	2.1	Transmission Odor Intensity Tests
NA	Various Locations	257	236.8	Pigging Operation Launcher/Receiver Emissions

Sum Total	18,819
------------------	---------------

SoCalGas, June 15th, 2023

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 - 2023 June Report
 Appendix 1; Rev. 03/30/2023

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

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 in the Blowdowns worksheet.

Transmission Pipeline Component Vented Emissions:

Total Number of Devices	Device Type	Bleed Rate	Manufacturer	Emission Factor (Mscf/day)	Annual Emission (Mscf)	Explanatory Notes / Comments
1	P	I	BETTIS	0.0576	21.024	ACTUATOR
1	P	I	BECKER	0.0576	21.024	ACTUATOR
1	P	I	BECKER	0.0576	21.024	ACTUATOR
1	P	I	HKC	0.0576	21.024	ACTUATOR
1	P	I	HKC	0.0576	21.024	ACTUATOR
1	P	I	BETTIS	0.0576	21.024	ACTUATOR
1	P	I		0.0576	21.024	ACTUATOR
1	P	I		0.0576	21.024	ACTUATOR
1	P	I	BECKER	0.0576	21.024	ACTUATOR
1	P	I	CAMERON	0.0576	21.024	CAMERON LEDEEN ACTUATOR
1	P	I	HKC	0.0576	21.024	ACTUATOR
1	P	I	HKC	0.0576	21.024	ACTUATOR
1	P	I	BECKER	0.0576	21.024	ACTUATOR
1	P	I		0.0576	21.024	ACTUATOR
1	P	I		0.0576	21.024	CONTROLLER SUPPLY ASSEMBLY
1	P	I		0.0576	21.024	GE BECKER ACTUATOR
1	P	I		0.0576	21.024	GE BECKER ACTUATOR
1	P	I	HKC	0.0576	21.024	24" HKC DOUBLE ACTING ACTUATOR
1	P	I	HKC	0.0576	21.024	24" HKC DOUBLE ACTING ACTUATOR
1	P	I	HKC	0.0576	21.024	16" HKC DOUBLE ACTING ACTUATOR
1	P	I	BETTIS	0.0576	21.024	ACTUATOR
1	P	I		0.0576	21.024	Actuator
1	P	I	HKC	0.0576	21.024	24" HKC DOUBLE ACTING ACTUATOR
1	P	I	HKC	0.0576	21.024	Actuator
1	P	I	EMERSON	0.0576	21.024	LINE GUARD 2100 LINE BREAK CONTROLLER
1	P	I		0.0576	21.024	CONTROLLER SUPPLY ASSEMBLY
1	P	I	BETTIS	0.0576	21.024	BETTIS ACTUATOR
1	P	I	HKC	0.0576	21.024	ACTUATOR FOR 8" BALL VALVE
1	P	I	BECKER	0.0576	21.024	BECKER VERTICAL ACTUATOR (SERVICE)
1	P	I	BETTIS	0.0576	21.024	ACTUATOR
1	P	I	BECKER	0.0576	21.024	ACTUATOR
1	P	I	BECKER	0.0576	21.024	ACTUATOR
1	P	I	HKC	0.0576	21.024	ACTUATOR
1	P	I	BECKER	0.0576	21.024	ACTUATOR
1	P	I	BETTIS	0.0576	21.024	ACTUATOR
1	P	I	BETTIS	0.0576	21.024	ACTUATOR
1	P	I	BETTIS	0.0576	21.024	ACTUATOR FOR MLV # 22
1	P	I	BETTIS	0.0576	21.024	ACTUATOR FOR CROSSOVER
1	P	I	BETTIS	0.0576	21.024	ACTUATOR
1	P	I	HKC	0.0576	21.024	36" HKC ACTUATOR
1	P	I		0.0576	21.024	Actuator
1	P	I		0.0576	21.024	ACTUATOR
1	P	I		0.0576	21.024	ACTUATOR
1	P	I		0.0576	21.024	ACTUATOR
1	P	I	BETTIS	0.0576	21.024	ACTUATOR
1	P	I	BECKER	0.0576	21.024	ACTUATOR
1	P	I	BETTIS	0.0576	21.024	BETTIS ACTUATOR
1	P	I	BETTIS	0.0576	21.024	BETTIS ACTUATOR
1	P	I	BETTIS	0.0576	21.024	BETTIS ACTUATOR FOR (-2)
1	P	I	SHAFER	0.0576	21.024	SHAFER ACTUATOR
1	P	I	BETTIS	0.0576	21.024	BETTIS ACTUATOR
1	P	I	LEDEEN	0.0576	21.024	LEDEEN ACTUATOR MLV 1B
1	P	I	BETTIS	0.0576	21.024	BETTIS ACTUATOR
1	P	I	ROTORK	0.0576	21.024	ACTUATOR
1	P	I		0.0576	21.024	BETTIS ACTUATOR
Sum Total					1,198	

SoCalGas, June 15th, 2023
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 - 2023 June Report
Appendix 1: Rev. 03/30/2023

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 unintentional leaks that if repaired would not 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 Pipeline Component Fugitive Leaks:

ID	Geographic Location	Device Type	Bleed Rate	Manufacturer	Discovery Date (MM/DD/YY)	Repair Date (MM/DD/YY)	Number of Days Leaking	Emission Factor (Mscf/day)	Annual Emission (Mscf)	Explanatory Notes / Comments	12/31/2022	1/1/2022
7446378	91360	O	NA		9/29/2020	7/14/2022	195	NA	NA	Component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	9/18/2020	
7490465	91344	O	NA		11/21/2020	7/14/2022	195	NA	NA	Component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	9/3/2020	
7691943	93268	O	NA		9/29/2021	5/10/2022	130	NA	NA	Component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	3/19/2021	
7695738	91344	O	NA		4/8/2021	7/14/2022	195	NA	NA	Component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	3/20/2021	
7729091	93033	O	NA		8/23/2021	9/30/2022	273	NA	NA	Component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	5/28/2021	
7753761	92410	O	NA		9/27/2021	10/19/2022	292	NA	NA	Component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	6/21/2021	
7856548	92236	O	NA		1/25/2022	1/26/2022	26	NA	NA	Component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	11/30/2021	
7878534	93268	O	NA		5/3/2022	6/1/2022	152	NA	NA	Component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	5/14/2021	
7886541	91384	O	NA		2/27/2022	5/3/2022	123	NA	NA	Component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	4/28/2021	
7903353	91204	O	NA		3/3/2022	4/22/2022	112	NA	NA	Component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	5/14/2021	
7909629	91710	P	NA		3/24/2022	4/5/2022	95	NA	NA	Component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	10/5/2021	
7937746	92591	O	NA		4/15/2022	4/15/2022	105	NA	NA	Component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	6/25/2021	
7939373	92227	O	NA		4/7/2022	3/1/2023	365	NA	NA	Component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	10/28/2021	
7965500	92014	O	NA		6/1/2022	6/22/2022	173	NA	NA	Component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	11/2/2021	
7965517	90230	O	NA		5/26/2022	12/20/2022	270	NA	NA	Component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	3/26/2022	
8014856	91377	O	NA		7/20/2022		365	NA	NA	Component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	5/27/2021	
8021080	93268	O	NA		4/6/2022	2/10/2023	268	NA	NA	Component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	4/8/2022	
8072118	92014	O	NA		9/17/2022		365	NA	NA	Component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	3/1/2021	
8084890	92203	O	NA		12/15/2022	12/15/2022	265	NA	NA	Component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	3/26/2022	
8084912	92236	O	NA		12/15/2022	12/15/2022	15	NA	NA	Component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	12/1/2022	
8092469	93033	O	NA		9/27/2022		102	NA	NA	Component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	9/21/2022	
8092482	91377	O	NA		10/7/2022		133	NA	NA	Component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	8/21/2022	
8099157	93251	O	NA		10/25/2022	1/23/2023	365	NA	NA	Component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	7/2/2021	
8100320	92880	O	NA		10/26/2022	10/26/2022	185	NA	NA	Component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	4/25/2022	
8116402	92653	O	NA		11/15/2022	11/16/2022	192	NA	NA	Component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	5/9/2022	
8123710	92262	O	NA		12/1/2022		365	NA	NA	Component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	12/28/2021	
8092544	92886	O	NA		3/28/2022	10/21/2022	33	NA	NA	Component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	9/19/2022	
8151601	92504	O	NA		12/14/2022		284	NA	NA	Component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	3/23/2022	
8151875	91730	O	NA		12/20/2022		31	NA	NA	Component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	12/1/2022	
8155966	92223	O	NA		12/23/2022	1/24/2023	365	NA	NA	Component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	4/19/2021	
8182477	92555	O	NA		11/9/2022		139	NA	NA	Component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	8/15/2022	
8070512	93117	O	NA		8/20/2022	11/3/2022	45	NA	NA	Component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	9/20/2022	
Sum Total											0	

SoCalGas, June 15th, 2023

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 - 2023 June Report
 Appendix 1; Rev. 03/30/2023

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.

Transmission Pipeline Odorizers:

ID	Geographic Location	Number of Units	Emission Factor (Mscf/yr)	Annual Emission (Mscf)	Explanatory Notes / Comments
Gas Quality Equipment	SoCalGas Territory	28		49.9	Transmission (BTU, Gas Quality), Gas Chromatographs (GC). Use manufacturing specs. See Notes in Appendix 9.
Gas Quality Equipment	SoCalGas Territory	22		567.5	Located in Storage, GCs and Gas Analyzers. Use manufacturing specs. See Notes in Appendix 9.
Gas Quality Equipment	SoCalGas Territory	21		389.0	Transmission (Interstate, Interutilities), GCs and Gas Analyzers. Use manufacturing specs. See Notes in Appendix 9.
Gas Quality Equipment	SoCalGas Territory	99		1562.0	Transmission (Producers), Gas Analyzers. Use manufacturing specs. See Notes in Appendix 9.
Gas Quality Equipment	SoCalGas Territory	43		33.1	Transmission (Producers), Gas Sample/Quality Tests. Use manufacturing specs. See Notes in Appendix 9.
Gas Quality Equipment	SoCalGas Territory	46		50.3	Big GEMs, GCs and Gas Analyzers. Use manufacturing specs. See Notes in Appendix 9.
Odorizer	SoCalGas Territory	37		240.5	YZ Odorizer. Use manufacturing specs. See Notes in Appendix 9.
Sum Total				2,892	

Appendix 1; Rev. 03/30/2023

Header column "Comment" boxes displayed below for reference.	
Column Heading	Description and Definition of Required Contents (IF not self-explanatory)
Pipeline Leaks	
ID	
Geographic Location	GIS, zip code, or equivalent
Pipe Material	PB = cathodically protected steel, bare PC = cathodically protected steel, coated UB = unprotected steel, bare UC = unprotected steel, coated
Pipe Size (nominal)	
Pipe Age (months)	
Pressure (psi)	MOP = maximum operating pressure over the past year
Leak Grade	1 = grade 1 2 = grade 2 2+ = grade 2+ 3 = grade 3 AH = Above Ground Hazardous synonymous with Grade 1. AN = Above Ground Non-Hazardous AM = Above Ground Non-Hazardous Minor (akin to grade 3 below ground leak). N = non-graded or ungraded
Above Ground or Below Ground	A = above ground B = below ground
Discovery Date (MM/DD/YY)	
Repair Date (MM/DD/YY)	Date that the pipeline repair stopped the leak. Any associated blowdowns resulting from the repair should be included in the blowdowns tab.
Scheduled Repair Date (MM/DD/YY)	If leak is open, specify the scheduled date of repair, or type "M," signifying that the leak is being monitored with no scheduled date of repair. Then, provide the reason for not scheduling a repair in Column for that purpose.
Reason for Not Scheduling a Repair	If not scheduled for repair (e.g. with a "M" for monitoring the leak in Scheduled Repair Date), then provide the reason for not scheduling a repair.
Number of Days Leaking	If the leak was discovered by survey in the year of interest, then assume leaking from January 1st of subject year thru repair date or December 31st of subject year, whichever is earlier. (E.G. Days Leaking = Repair - Jan 1st + 1 day.) (For days leaking for leaks carried over use January 1st as start date for emissions calculations.) 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.
Emission Factor (Mscf/Day)	
Annual Emissions (Mscf)	

Appendix 1; Rev. 03/30/2023

Header column "Comment" boxes displayed below for reference.	
Column Heading	Description and Definition of Required Contents (IF not self-explanatory)
Explanatory Notes / Comments	
All Damages	
ID	
Geographic Location	GIS, zip code, or equivalent
Damage Type	E = excavation damage N = natural force damage O = other outside force damage
Pipe Material	PB = cathodically protected steel, bare PC = cathodically protected steel, coated UB = unprotected steel, bare UC = unptotected steel, coated
Pipe Size (nominal)	
Pipe Age (months)	
Pressure (psi)	MOP = maximum operating pressure over the past year
Leak Grade	1 = grade 1 2 = grade 2 2+ = grade 2+ 3 = grade 3 N = non-graded or ungraded
Above Ground or Below Ground	AH = above ground, hazardous AN = above ground, non-hazardous B = below ground
Discovery Date (MM/DD/YY)	
Repair Date (MM/DD/YY)	
Number of Days Leaking	<p>If date and time stamp are reliable and used consistently by respondent, then emissions may be calculated based on actual time leaking. E.G. Repair time - damage event time = duration of event.</p> <p>If respondent has average or historical leak duration based on the nature and circumstances of damages, then these may be applied to like damage events. The emissions factors should be adequately supported and explained in the filing.</p> <p>If actual time stamps and historical averages are not available, then whole days should be used in the engineering calculation. The leak begins with the damage event date thru repair date or December 31st of subject year, whichever is later. E.G. Days Leaking = Repair date - date of damage + 1 day.</p>

Appendix 1; Rev. 03/30/2023

Header column "Comment" boxes displayed below for reference.	
Column Heading	Description and Definition of Required Contents (IF not self-explanatory)
Emission Factor (Mscf/Day)	
Annual Emissions (Mscf)	
Explanatory Notes / Comments	Provide method of calculation and example of formula. Explain how any EF's used were derived.
Tab: Blowdowns	
ID	
Geographic Location	GIS, zip code, or equivalent
Number of Blowdown Events	
Reason	Maintenance (M) Repair or Replacement (R) Integrity Management (IM) Pressure Reduction or Deactivation (PR) Other (O) In the case of Other(O), please provide a description of the reason.
Emission Reduction Strategy	Drafting (D) Cross Compression (XC) Gas Capture (GC) Flaring or Thermal Oxidation (FTO) Project Bundling (PB) Multiple Methods (M) None (N) Other (O) In the case of Multiple Methods (M), please list each method. In the case of Other (O), please provide a description of the strategy.
Annual Emissions (Mscf)	
Explanatory Notes / Comments	
Methane Abatement (Mscf)	
Tab: Component Vented Emissions	
Total Number of Devices	

Appendix 1; Rev. 03/30/2023

Header column "Comment" boxes displayed below for reference.	
Column Heading	Description and Definition of Required Contents (IF not self-explanatory)
Device Type	P = pneumatic device H = Hydraulic valve operator T = turbine valve operator PR = pressure relief valve O = other devices
Bleed Rate	L = low bleed I = intermittent bleed H = high bleed NA = not applicable
Manufacturer	
Emission Factor (Mscf/day)	
Annual Emissions (Mscf)	Because the emissions are a factor of design or function, these emissions counted for the entire year. E.G. 365 days times the actual volume emitting if known, or the approved Emissions Factor.
Explanatory Notes / Comments	Note whether the emissions are based on actual volumetric measures.
Component Fugitive Leaks	
ID	
Geographic Location	GIS, zip code, or equivalent
Device Type	P = pneumatic device H = Hydraulic valve operator T = turbine valve operator PR = pressure relief valve O = other devices
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)	Date that the component repair stopped the leak. Any associated blowdowns as a result of the repair should be included in the blowdowns tab.

Appendix 1; Rev. 03/30/2023

Header column "Comment" boxes displayed below for reference.	
Column Heading	Description and Definition of Required Contents (IF not self-explanatory)
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.
Emission Factor (Mscf/day)	
Annual Emissions (Mscf)	
Explanatory Notes / Comments	
Odorizers	
ID	
Geographic Location	GIS, zip code, or equivalent
Number of Units	
Emission Factor (Mscf/yr)	
Annual Emission (Mscf)	All of the emissions from the odorizing process and equipment.
Explanatory Notes / Comments	