

SoCalGas, July 1st, 2024
Rulemaking (R) 15-01-008 to Adopt Rules and Procedures Governing Commission Registered 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 1, Rev. 03/29/2024

Notes:
 Emissions included in the Report are based on miles of transmission pipelines. 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:													12/31/2023	1/1/2023		
ID	Geographic Location	Pipe Material	Pipe Size (nominal)	Pipe Age (months)	Pressure (psi)	Leak Grade	Above Ground or Below Ground	Discovery Date (MM/DD/YYYY)	Repair Date (MM/DD/YYYY)	Scheduled Repair Date (MM/DD/YYYY)	Reason for Not Scheduling a Repair	Number of Days Leaking	Emission Factor (Mscf/Year/Year)	Annual Emissions (Mscf)	Explanatory Notes / Comments	Prior Survey Date (MM/DD/YYYY)
Transmission	SoCalGas Territory	PB	All	All	All	All	All	N/A	N/A	N/A	N/A	N/A	0.38		1 Mile - For 2023, the WGS&A 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. 0.4	
Transmission	SoCalGas Territory	PC	All	All	All	All	All	N/A	N/A	N/A	N/A	N/A	0.38		3,380 Miles - For 2023, the WGS&A 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.	
8066251	91384	PC	26	1,092	120	AM	A	9/2/2022	6/12/2023			163		1,269	NA	8/4/2021
Sum Total														1,270		

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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
8387916	93204 E	PC	PC	20	756	400	1 B		8/23/2023	8/25/2023	3		2,681	
8385287	92256 N	PC	PC	16	805	468	1 B		8/20/2023	12/27/2023	130		4,800	
Sum Total													7,481	

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Appendix I; Rev. 03/29/2024

Notes:

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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-2022-334	93108	1	O	XC	9.53	Pipeline blowdown; Cal Trans high/freeway widening project	2,174.86
BD-2022-674	90002	1	R	M, D, XC	46.00	Pipeline blowdown	4,658.24
BD-2023-711	93268	1	R	XC	175.12	Pipeline blowdown	2,343.15
BD-2023-745	90045	1	R	M, D, XC	73.26	Pipeline blowdown	5,952.25
BD-2023-754	91730	1	R	M, D, XC	175.86	Pipeline blowdown	14,785.80
BD-2023-791	90031	1	R	XC	4.21	Pipeline blowdown	618.92
BD-2023-792	90033	1	R	XC	6.74	Pipeline blowdown	990.27
BD-2023-793	92338	1	IM	M, D, XC	1,298.72	Pipeline blowdown	16,274.89
BD-2023-794	95412	1	R	XC	71.42	Pipeline blowdown	9,593.20
BD-2023-795	92220	1	R	XC	8.90	Pipeline blowdown	94.00
BD-2023-796	92282	1	R	XC	94.26	Pipeline blowdown	2,839.27
BD-2023-806	92338	1	IM	M, D, XC	531.39	Pipeline blowdown	19,373.37
BD-2023-807	92338	1	IM	M, D, XC	544.67	Pipeline blowdown	18,464.65
BD-2023-811	91377	1	R	XC	83.31	Pipeline blowdown	2,834.68
BD-2023-822	92262	1	IM	XC	39.08	Pipeline blowdown	584.96
BD-2023-823	92262	1	IM	XC	0.45	Pipeline blowdown	6,801,800.00
BD-2023-825	92262	1	IM	XC	0.45	Pipeline blowdown	6,801,800.00
BD-2023-846	93268	1	R	GC	3.66	Pipeline blowdown	48.76
BD-2023-848	92301	1	IM	D	46.29	Pipeline blowdown	58.67
BD-2023-883	92345	1	R	XC	232.57	Pipeline blowdown	10,200.65
BD-2023-892	90045	1	R	XC	66.09	Pipeline blowdown	2,936.52
BD-2023-896	91302	1	R	XC	11.91	Pipeline blowdown	358.04
BD-2023-924	92236	1	IM	XC	1.07	Pipeline blowdown	123.00
BD-2023-925	92220	1	IM	XC	0.00	Pipeline blowdown	77.71
BD-2023-938	93215	1	R	XC	0.00	Pipeline blowdown	4.21
BD-2023-950	92823	1	R	M, D, XC	23.08	Pipeline blowdown	3,391.79
BD-2023-951	92365	1	IM	M, D, XC	460.83	Pipeline blowdown	34,004.64
BD-2023-976	91322	1	IM	M, D, XC	59.61	Pipeline blowdown	5,167.99
BD-2023-977	90023	1	R	XC	20.88	Pipeline blowdown	1,696.26
BD-2023-1016	93251	1	R	XC	360.02	Pipeline blowdown	4,016.36
BD-2023-1018	91344	1	R	M, XC, FTO	3.13	Pipeline blowdown	9,070.90
BD-2023-1021	92058	1	R	XC	4.72	Pipeline blowdown	154.79
BD-2023-1034	92606	1	IM	D	929.56	Pipeline blowdown	1,562.24
BD-2023-1036	93220	1	R	XC	0.03	Pipeline blowdown	43.10
BD-2023-1037	93251	1	R	XC	5.69	Pipeline blowdown	203.58
BD-2023-1038	93251	1	R	XC	1.16	Pipeline blowdown	151.37
BD-2023-1040	93220	1	R	XC	0.03	Pipeline blowdown	51.23
BD-2023-1041	92220	1	R	N	34.81	Pipeline blowdown	0.00
BD-2023-1043	92239	1	IM	D	1,733.77	Pipeline blowdown	
BD-2023-1064	93215	1	R	XC	0.00	Pipeline blowdown	2.59
BD-2023-1084	92365	1	IM	XC	94.00	Pipeline blowdown	12,626.18
BD-2023-1114	90049	1	IM	XC	207.08	Pipeline blowdown	6,030.42
BD-2024-1171	90049	1	R	XC	229.62	Pipeline blowdown	2,972.32
BD-2024-1176	92886	1	R	XC	175.07	Pipeline blowdown	5,090.91
71124_2000	92211	1	R	N	449.62	Pipeline blowdown	0.00
71124_2001	92211	1	R	N	388.06	Pipeline blowdown	0.00
BD-2024-1318	92282	1	R	XC	77.50	Pipeline blowdown	3,820.69
BD-2024-1313	92555	1	IM	XC	11.63	Pipeline blowdown	1,311.44
BD-2024-1314	92555	1	R	XC	319.40	Pipeline blowdown	5,907.09
BD-2024-1319	93117	1	IM	XC	0.00	Pipeline blowdown	5.40
BD-2024-1324	92878	1	R	XC	13.98	Pipeline blowdown	1,669.58
BD-2024-1322	90744	1	R	XC	0.04	Pipeline blowdown	147.81
BD-2023-1019	92276	1	IM	XC	789.16	Pipeline blowdown	30,617.84
BD-2024-1326	92887	1	IM	XC	574.74	Pipeline blowdown	9,704.26
BD-2023-917	93001	1	IM	XC	0.01	Pipeline blowdown	2.50
BD-2023-1033	91803	1	M	D, XC	54.70	Pipeline blowdown	4,238.38
BD-2024-1341	92282	1	IM	XC	878.32	Pipeline blowdown	11,995.24

BD-2024-1342	93003	1 IM	XC	7.98 Pipeline blowdown	45.92
NA	Various Locations	6		0.15 Meter Inspections - 25 scf/inspection	
NA	Various Locations	10		0.02 Analyzers & Gas chromatograph 2 scf/inspection	
NA	Various Locations	481		14.43 Filter Change-outs or Filter Inspections w/parts replacement - Estimated avg. gas vented = 30 scf/inspection	
NA	Various Locations	25		0.50 Relief Valve Inspections at Transmission Pipeline - Estimated avg. gas vented = 20 scf/inspection	
NA	Various Locations	276		0.55 LineBreaks - Estimated avg. gas vented = 2 scf/insp	
NA	Various Locations	86		71.67 Drips - Pipeline Drip Accumulation - Estimated avg. gas vented = 10,000 cfh for 5min/device	
NA	Various Locations	499		1.00 Pneumatic Device Annual Inspections (actuators & Controllers) - Estimated avg. gas vented = 2 scf/insp	
NA	Various Locations	824		2.15 Transmission Odor Intensity Tests	
NA	Various Locations	185	XC	261.52 Pigging Operation Launcher/Receiver Emissions	1,448.78

Sum Total	11,785
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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	BETTIS	0.0576	21.024	ACTUATOR
1	P	I		0.0576	21.024	10" 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	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	

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The emissions captured on this tab represent the emissions associated intentional 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:

Transmission Pipeline Component Fugitive Leaks:											12/31/2023	1/1/2024
ID	Geographic Location	Device Type	Bleed Rate	Manufacturer	Discovery Date (MM/DD/YYYY)	Repair Date (MM/DD/YYYY)	Number of Days Leaking	Emission Factor (Mscf/day)	Annual Emission (Mscf)	Explanatory Notes / Comments	Prior Survey Date (MM/DD/YYYY)	
8014856	91377	O			7/20/2022	9/11/2023	254			Component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	4/8/2022	
8021080	91268	O			8/4/2022	2/10/2023	41			Component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	7/28/2022	
8075906	92324	O			9/26/2022	3/28/2023	87			Component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	5/19/2022	
8092482	91377	O			10/7/2022	9/11/2023	254			Component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	7/2/2021	
8099157	93251	O			10/25/2022	10/24/2023	297			Component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	8/8/2022	
8100320	92880	O			10/16/2022	3/16/2023	75			Component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	8/22/2022	
8123710	92262	O			11/30/2022	3/21/2023	80			Component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	10/18/2022	
8151601	92504	O			12/14/2022	1/20/2023	20			Component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	9/19/2022	
8151875	91730	O			12/20/2022	6/16/2023	167			Component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	4/19/2021	
8182477	92555	O			11/9/2022	11/7/2023	311			Component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	9/20/2022	
8184582	90744	O			1/31/2023	1/31/2023	31			Component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	7/21/2022	
8184671	92506	O			11/12/2022	1/23/2023	23			Component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	9/19/2022	
8187236	92880	O			1/28/2023	1/28/2023	28			Component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	11/28/2022	
8205962	93313	O			2/9/2023	2/14/2023	45			Component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	9/24/2022	
8234964	91344	O			3/13/2023	11/6/2023	310			Component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	9/20/2022	
8236495	91770	O			3/13/2023	9/15/2023	258			Component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	11/1/2022	
8238662	93268	O			3/22/2023	5/22/2023	142			Component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	9/15/2022	
8241097	93314	O			3/23/2023	5/23/2023	143			Component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	9/15/2022	
8263276	93251	O			4/13/2023	10/10/2023	283			Component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	9/30/2022	
8264076	93314	O			3/27/2023	5/24/2023	132			Component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	1/13/2023	
8276486	91301	O			5/2/2023	9/3/2023	10			Component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	4/24/2023	
8302098	92251	O			5/25/2023		365			Component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	11/8/2022	
8303543	92606	O			5/30/2023		314			Component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	2/21/2023	
8319748	91607	O			6/6/2023		245			Component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	5/2/2023	
8323556	91786	O			6/10/2023		223			Component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	5/23/2023	
8332258	93204	O			6/30/2023		221			Component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	5/25/2023	
8333064	93252	O			7/6/2023		294			Component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	3/13/2023	
8352855	93263	O			7/17/2023	7/19/2023	85			Component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	4/26/2023	
8352904	90033	O			7/19/2023	8/18/2023	95			Component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	5/16/2023	
8359485	93268	O			2/9/2023	2/14/2023	45			Component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	9/26/2022	
8381102	92054	O			8/9/2023		280			Component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	3/27/2023	
8385684	92887	O			8/23/2023	12/6/2023	197			Component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	5/24/2023	
8387830	91302	O			8/25/2023		157			Component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	7/28/2023	
8390843	91770	O			9/5/2023		273			Component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	4/9/2023	
8462352	92870	O			11/24/2023	11/25/2023	97			Component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	8/22/2023	
8463108	92262	O			11/8/2023		365			Component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	10/18/2022	
8481378	91739	O			11/29/2023		132			Component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	8/21/2023	
8483448	92553	O			12/11/2023		365			Component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	11/28/2022	
8488318	90293	O			12/4/2023		104			Component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	9/19/2023	
8692469	93033	O			9/27/2022	11/17/2023	321			Component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	9/21/2022	
8072118	92014	O			9/17/2022	9/14/2023	327			Component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	3/1/2021	
8305735	93001	O			1/6/2023	2/3/2023	34			Component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	8/26/2022	
8330281	90744	O			3/28/2023		365			Component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	12/5/2022	

Sum Total 0

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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	29		52	Transmission (BTU, Gas Quality), Gas Chromatographs (GC). Use manufacturing specs. See Notes in Appendix 9.
Gas Quality Equipment	SoCalGas Territory	22		568	Located in Storage, GCs and Gas Analyzers. Use manufacturing specs. See Notes in Appendix 9.
Gas Quality Equipment	SoCalGas Territory	21		389	Transmission (Interstate, Interutilities), GCs and Gas Analyzers. Use manufacturing specs. See Notes in Appendix 9.
Gas Quality Equipment	SoCalGas Territory	100		1579	Transmission (Producers), Gas Analyzers. Use manufacturing specs. See Notes in Appendix 9.
Gas Quality Equipment	SoCalGas Territory	43		16	Transmission (Producers), Gas Sample/Quality Tests. Use manufacturing specs. See Notes in Appendix 9.
Gas Quality Equipment	SoCalGas Territory	44		46	Big GEMs, GCs and Gas Analyzers. Use manufacturing specs. See Notes in Appendix 9.
Odorizer	SoCalGas Territory	37		250	YZ Odorizer. Use manufacturing specs. See Notes in Appendix 9.
Sum Total				2,899	

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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 <u>thru</u> 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 <u>thru</u> repair date or December 31st of subject year, whichever is earlier.

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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	
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)	

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

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Header column "Comment" boxes displayed below for reference.	
Column Heading	Description and Definition of Required Contents (IF not self-explanatory)
Annual Emissions (Mscf)	
Explanatory Notes / Comments	
Methane Abatement (Mscf)	
Tab: Component Vented Emissions	
Total Number of Devices	
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	

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Header column "Comment" boxes displayed below for reference.	
Column Heading	Description and Definition of Required Contents (IF not self-explanatory)
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.
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	