

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 - 2020 June Report
Appendix 1 - Rev. 03/31/20

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/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/Mile/Year)	Annual Emissions (Mscf)	Explanatory Notes / Comments
Transmission	SoCalGas	PB	All	All	All	All	All	N/A	N/A	N/A	N/A	N/A	0.38	0.4	1 Mile - For 2019, the INGA Greenhouse Gas Emission Estimation Guidelines for Natural Gas Transmission and Storage - Volume 1 GHG Emission Estimation
Transmission	SoCalGas	PC	All	All	All	All	All	N/A	N/A	N/A	N/A	N/A	0.38	0.4	3,384 Miles - For 2019, the INGA 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.
6843657	92278	PC	16	744	890	Code 2	B	10/4/2018	3/22/2019	N/A	N/A	81	N/A	N/A	1,271 Pipeline leak associated with Pipeline Integrity work on Line 6916
6843659	92277	PC	16	744	890	Code 2	B	10/4/2018	3/22/2019	N/A	N/A	81	N/A	N/A	Pipeline leak associated with Pipeline Integrity work on Line 6916
6843660	92277	PC	16	744	890	Code 2	B	10/4/2018	3/22/2019	N/A	N/A	81	N/A	N/A	Pipeline leak associated with Pipeline Integrity work on Line 6916
6852716	92278	PC	16	744	890	Code 2	B	10/4/2018	3/22/2019	N/A	N/A	81	N/A	N/A	Pipeline leak associated with Pipeline Integrity work on Line 6916
6949074	93311	PC	10	840	400	Code 2	C	11/28/2019	6/3/2019	N/A	N/A	154	N/A	N/A	Pipeline Leak
6981887	92365	PC	10	748	936	Code 2	B	3/27/2019	4/2/2019	N/A	N/A	92	N/A	N/A	Related to a Transmission Integrity Mgmt. Plan Project on Line 235W to re-establish integrity of Maximum Allowable Operating Pressure
6981888	92365	PC	10	748	936	Code 2	B	4/29/2019	4/29/2019	N/A	N/A	96	N/A	N/A	Related to a Transmission Integrity Mgmt. Plan Project on Line 235W to re-establish integrity of Maximum Allowable Operating Pressure
6993927	92365	PC	10	748	936	Code 2	B	4/13/2019	4/23/2019	N/A	N/A	113	N/A	N/A	Related to a Transmission Integrity Mgmt. Plan Project on Line 235W to re-establish integrity of Maximum Allowable Operating Pressure
6993929	92365	PC	10	748	936	Code 2	B	4/13/2019	4/25/2019	N/A	N/A	115	N/A	N/A	Related to a Transmission Integrity Mgmt. Plan Project on Line 235W to re-establish integrity of Maximum Allowable Operating Pressure
7007009	92365	PC	10	748	936	Code 2	B	4/19/2019	5/2/2019	N/A	N/A	122	N/A	N/A	Related to a Transmission Integrity Mgmt. Plan Project on Line 235W to re-establish integrity of Maximum Allowable Operating Pressure
7008465	92365	PC	10	748	936	Code 2	B	4/24/2019	5/8/2019	N/A	N/A	126	N/A	N/A	Related to a Transmission Integrity Mgmt. Plan Project on Line 235W to re-establish integrity of Maximum Allowable Operating Pressure
7016377	92365	PC	10	748	936	Code 2	B	5/4/2019	5/21/2019	N/A	N/A	141	N/A	N/A	Related to a Transmission Integrity Mgmt. Plan Project on Line 235W to re-establish integrity of Maximum Allowable Operating Pressure
7032115	92365	PC	10	748	936	Code 2	B	5/11/2019	6/14/2019	N/A	N/A	165	N/A	N/A	Related to a Transmission Integrity Mgmt. Plan Project on Line 235W to re-establish integrity of Maximum Allowable Operating Pressure
7047636	92365	PC	10	748	936	Code 2	B	6/7/2019	6/28/2019	N/A	N/A	179	N/A	N/A	Related to a Transmission Integrity Mgmt. Plan Project on Line 235W to re-establish integrity of Maximum Allowable Operating Pressure
7047641	92365	PC	10	748	936	Code 2	B	6/18/2019	7/9/2019	N/A	N/A	190	N/A	N/A	Related to a Transmission Integrity Mgmt. Plan Project on Line 235W to re-establish integrity of Maximum Allowable Operating Pressure
7075421	92365	PC	10	748	936	Code 2	B	7/15/2019	9/5/2019	N/A	N/A	248	N/A	N/A	Related to a Transmission Integrity Mgmt. Plan Project on Line 235W to re-establish integrity of Maximum Allowable Operating Pressure
7077449	92365	PC	10	748	936	Code 2	B	7/18/2019	8/13/2019	N/A	N/A	225	N/A	N/A	Related to a Transmission Integrity Mgmt. Plan Project on Line 235W to re-establish integrity of Maximum Allowable Operating Pressure
7081650	92365	PC	10	748	936	Code 2	B	7/18/2019	8/7/2019	N/A	N/A	219	N/A	N/A	Related to a Transmission Integrity Mgmt. Plan Project on Line 235W to re-establish integrity of Maximum Allowable Operating Pressure
7105662	92365	PC	10	748	936	Code 2	B	8/21/2019	9/1/2019	N/A	N/A	254	N/A	N/A	Related to a Transmission Integrity Mgmt. Plan Project on Line 235W to re-establish integrity of Maximum Allowable Operating Pressure
7105664	92365	PC	10	748	936	Code 2	B	8/21/2019	9/1/2019	N/A	N/A	254	N/A	N/A	Related to a Transmission Integrity Mgmt. Plan Project on Line 235W to re-establish integrity of Maximum Allowable Operating Pressure
7109219	92304	PC	16	744	890	Code 2	B	3/12/2019	3/11/2020	N/A	N/A	365	N/A	N/A	Pipeline leak associated with Pipeline Integrity work on Line 6916
7109221	92277	PC	16	744	890	Code 2	B	3/12/2019	3/11/2020	N/A	N/A	365	N/A	N/A	Pipeline leak associated with Pipeline Integrity work on Line 6916

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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 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
No Reported Damages in 2019														

Sum total 0

[Company Name], [Date Submitted]

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Transmission Pipeline Blowdowns:

ID	Geographic Location	Number of Blowdown Events	Annual Emissions (Mscf)	Explanatory Notes / Comments
NA	91765	1	577	Blowdown associated with Pipeline Integrity
NA	90713	1	1,200	Pipeline Blowdown
NA	91355	1	7,668	Pipeline Blowdown
NA	91355	1	6,503	Pipeline Blowdown associated with Pipeline Integrity work
NA	SoCalGas Territory	282	8	Filter Change-outs or Filter Inspections w/parts replacement - Estimated avg. gas vented = 30 scf/inspection
NA	90232	1	184	Pipeline Blowdown
NA	90080	1	2,792	Pipeline Blowdown
NA	90080	1	4,537	Pipeline Blowdown associated with Pipeline Integrity work
NA	90080	1	3,376	Pipeline Blowdown
NA	91365	1	175	Pipeline Blowdown
NA	91365	1	750	Pipeline Blowdown
NA	92220	1	7,699	Pipeline Blowdown associated with Pipeline Safety Enhancement Plan Project
NA	93510	1	9,587	Pipeline Blowdown associated with Leak Repair
NA	90077	1	1,000	Pipeline Blowdown associated with Pipeline Safety Enhancement Plan Project
NA	93243	1	250	Pipeline Blowdown
NA	91344	1	29	Pipeline Blowdown associated with Pipeline Integrity work
NA	91344	1	29	Pipeline Blowdown associated with Pipeline Integrity work
NA	92365	1	8,539	Related to a Transmission Integrity Mgmt. Plan Project on Line 235W to re-establish integrity of Maximum Allowable Operating Pressure
NA	92365	1	8,290	Related to a Transmission Integrity Mgmt. Plan Project on Line 235W to re-establish integrity of Maximum Allowable Operating Pressure
NA	92365	1	4,299	Related to a Transmission Integrity Mgmt. Plan Project on Line 235W to re-establish integrity of Maximum Allowable Operating Pressure
NA	92365	1	1,030	Related to a Transmission Integrity Mgmt. Plan Project on Line 235W to re-establish integrity of Maximum Allowable Operating Pressure
NA	92365	1	11,498	Related to a Transmission Integrity Mgmt. Plan Project on Line 235W to re-establish integrity of Maximum Allowable Operating Pressure
NA	92308	1	11,498	Pipeline Blowdown associated with Leak Repair
NA	92356	1	25,594	related to a Transmission Integrity Mgmt. Plan Project on Line 235W to re-establish integrity of Maximum Allowable Operating Pressure
NA	92308	1	1,808	Pipeline Blowdown associated with Leak Repair
NA	92308	1	1,276	Pipeline Blowdown associated with Leak Repair
NA	92308	1	1,276	Pipeline Blowdown associated with Leak Repair
NA	92349	1	262	Pipeline Blowdown
NA	93252	1	15	Pipeline Blowdown associated with Leak Repair
NA	93204	1	1,443	Pipeline Blowdown
NA	93249	1	202	Pipeline Blowdown associated with Leak Repair
NA	93251	1	595	Pipeline Blowdown for customer requested work
NA	SoCalGas Territory	44	1	Meter Inspections - 25 scf/inspection
N/A	SoCalGas Territory	216	2,390	Pigging Operation Launcher/Receiver Emissions
NA	93004	1	4	Pipeline Blowdown associated with Pipeline Safety Enhancement Plan Project
NA	SoCalGas Territory	201	4	Relief Valve Inspections at Transmission Pipeline - Estimated avg. gas vented = 20 scf/inspection
NA	92281	1	95	Pipeline Blowdown
NA	92345	1	1,423	Tie-in Project
NA	92701	1	20	Tie-in Project
NA	92701	1	20	Tie-in Project
NA	92701	1	244	Tie-in Project

NA	92701	1	20	Tie-in Project
NA	91385	1	29	Tie-in Project
NA	91385	1	29	Tie-in Project
NA	91385	1	29	Tie-in Project
NA	91362	1	3,634	Pipeline Blowdown
NA	93006	1	653	Pipeline Blowdown
NA	SoCalGas Territory	1035	2	Transmission Odor Intensity Tests
NA	93012	1	2	Blowdown associated with Pipeline Safety Enhancement Plan work
NA	92304	1	115	Pipeline Blowdown
NA	92304	1	145	Pipeline Blowdown
		845	2	Pneumatic Device Annual Inspections - Estimated avg. gas vented = 2 scf/insp
N/A	SoCalGas Territory	84	70	Pipeline Drip Accumulation - Estimated avg. gas vented = 10,000 cfh for 5min/device
N/A	SoCalGas Territory	40	0.08	Gas chromatograph
			132,921	

SoCalGas, June 15, 2020

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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 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/dev)	Annual Emission (Mscf)	Explanatory Notes / Comments
324	P	I	Mics.	0.0576	6812	
5	P	L	Bristol	0.0336	61	
4	P	H	Fisher	0.4457	292	These devices were replaced on 6/14/19
					7,165	

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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:

										12/31/2019	1/1/2019
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	Prior Survey Date (MM/DD/YY)
6063797	93311	V	N/A	N/A	2/12/2016	4/9/2019	99	N/A	N/A	Valve component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	12/3/2015
6395443	93276	V	N/A	N/A	2/28/2018	2/20/2019	51	N/A	N/A	Valve component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	9/20/2017
6620190	93311	V	N/A	N/A	10/20/2017	2/7/2019	38	N/A	N/A	Valve component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	9/19/2017
6653788	93276	C	N/A	N/A	2/13/2018	2/10/2019	41	N/A	N/A	Valve component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	9/20/2017
6678207	91384	C	N/A	N/A	3/26/2018	5/28/2019	148	N/A	N/A	Valve component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	9/13/2017
6697268	93249	V	N/A	N/A	4/5/2018	8/20/2019	232	N/A	N/A	Valve component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	3/30/2018
6697269	93222	C	N/A	N/A	4/5/2018	8/29/2019	241	N/A	N/A	Valve component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	3/30/2018
6697272	93204	C	N/A	N/A	4/9/2018	6/7/2019	158	N/A	N/A	Valve component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	3/30/2018
6697275	93204	V	N/A	N/A	4/5/2018	6/7/2019	158	N/A	N/A	Valve component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	3/30/2018
6697278	93268	V	N/A	N/A	4/4/2018	9/19/2019	262	N/A	N/A	Valve component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	3/30/2018
6724437	91380	V	N/A	N/A	5/23/2018	3/20/2019	79	N/A	N/A	Valve component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	3/28/2018
6828193	93016	V	N/A	N/A	9/19/2018	2/6/2020	365	N/A	N/A	Valve component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	3/19/2018
6852724	93551	V	N/A	N/A	10/31/2018	8/26/2019	238	N/A	N/A	Valve component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	9/29/2018
6919691	92254	V	N/A	N/A	1/14/2019	1/14/2019	14	N/A	N/A	Valve component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	8/24/2018
6919692	93552	C	N/A	N/A	1/11/2019	1/11/2019	12	N/A	N/A	Valve component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	9/29/2019
6862393	92618	V	N/A	N/A	11/5/2018	10/12/2019	285	N/A	N/A	Valve component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	10/8/2018
6927332	91321	V	N/A	N/A	1/25/2019	9/11/2019	171	N/A	N/A	Valve component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	3/25/2019
6927334	91321	V	N/A	N/A	1/25/2019	9/11/2019	171	N/A	N/A	Valve component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	3/25/2019

6927643	92254	C	N/A	N/A	4/16/2019	5/10/2019	77	N/A	N/A	Valve component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	2/23/2019
6927644	92336	V	N/A	N/A	4/16/2019	4/19/2019	52	N/A	N/A	Valve component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	2/27/2019
6941591	91506	C	N/A	N/A	1/30/2019	1/30/2019	30	N/A	N/A	Valve component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	4/27/2018
6945432	91748	V	N/A	N/A	2/11/2019	5/9/2019	129	N/A	N/A	Valve component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	11/19/2018
6945563	90220	V	N/A	N/A	2/14/2019	4/27/2019	117	N/A	N/A	Valve component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	11/6/2018
6957143	93521	V	N/A	N/A	3/12/2019	3/12/2019	71	N/A	N/A	Valve component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	10/4/2018
6956673	92344	V	N/A	N/A	3/5/2019	10/22/2019	295	N/A	N/A	Valve component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	9/26/2018
6957146	92868	P	N/A	N/A	3/11/2019	5/11/2019	94	N/A	N/A	Valve component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	2/7/2019
6981876	93591	C	N/A	N/A	3/29/2019	4/1/2019	90.0	N/A	N/A	Valve component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	9/29/2019
6981880	91387	V	N/A	N/A	3/28/2019	3/28/2019	87	N/A	N/A	Valve component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	9/29/2018
6983028	90058	C	N/A	N/A	4/2/2019	4/2/2019	41	N/A	N/A	Valve component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	2/21/2019
6985281	92239	C	N/A	N/A	4/9/2019	5/22/2019	44	N/A	N/A	Valve component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	4/9/2019
7046911	93311	V	N/A	N/A	6/12/2019		279	N/A	N/A	Valve component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	3/28/2019
7075366	93016	V	N/A	N/A	7/15/2019		279	N/A	N/A	Valve component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	3/28/2019
7084009	92301	C	N/A	N/A	7/25/2019	7/25/2019	79	N/A	N/A	Valve component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	5/8/2019
7099135	92304	C	N/A	N/A	8/3/2019	8/3/2019	73	N/A	N/A	Valve component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	5/23/2019
7099140	92584	C	N/A	N/A	7/24/2019	8/2/2019	95	N/A	N/A	Valve component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	4/30/2019
7101120	92230	P	N/A	N/A	6/27/2019	6/27/2019	107	N/A	N/A	Valve component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	3/13/2019
7110605	90245	V	N/A	N/A	9/3/2019	9/4/2019	20	N/A	N/A	Valve component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	8/16/2019
7081229	92258	V	N/A	N/A	7/24/2019	7/26/2019	74	N/A	N/A	Valve component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	5/14/2019
7126071	91310	V	N/A	N/A	9/12/2019	9/16/2019	173	N/A	N/A	Valve component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	3/28/2019
7099402	91380	V	N/A	N/A	8/5/2019		281	N/A	N/A	Valve component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	3/26/2019
7168278	92365	C	N/A	N/A	12/19/2019	12/19/2019	44	N/A	N/A	Valve component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	11/6/2019

7168279	92307	C	N/A	N/A	10/18/2019	10/18/2019	36	N/A	N/A	Valve component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	9/13/2019
7123979	92018	C	N/A	N/A	9/11/2019		285	N/A	N/A	Valve component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	3/22/2019
7124044	93022	V	N/A	N/A	9/13/2019		203	N/A	N/A	Valve component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	6/12/2019
7134629	93311	C	N/A	N/A	9/23/2019	10/1/2019	188	N/A	N/A	Valve component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	3/28/2019
7148594	90720	V	N/A	N/A	10/18/2019		110	N/A	N/A	Valve component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	9/13/2019
7153370	91344	V	N/A	N/A	10/29/2019		120	N/A	N/A	Valve component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	9/3/2019
7154696	92376	C	N/A	N/A	11/4/2019		117	N/A	N/A	Valve component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	9/6/2019
7123983	92011	V	N/A	N/A	9/11/2019	1/28/2020	285	N/A	N/A	Valve component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	3/22/2019
7172196	92693	C	N/A	N/A	11/21/2019		127	N/A	N/A	Valve component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	8/27/2019
7197926	93251	V	N/A	N/A	12/18/2019		54	N/A	N/A	Valve component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	11/8/2019

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Transmission Pipeline Odorizers:

ID	Geographic Location	Number of Units	Emission Factor (Mscf/yr)	Annual Emission (Mscf)	Explanatory Notes / Comments
Gas Quality Equipment	SoCalGas Territory	30	N/A	54	Transmission (BTU, Gas Quality), Gas Chromatographs (GC). Use manufacturing specs. See Notes in Appendix 9.
Gas Quality Equipment	SoCalGas Territory	22	N/A	539	Located in Storage, GCs and Gas Analyzers. Use manufacturing specs. See Notes in Appendix 9.
Gas Quality Equipment	SoCalGas Territory	21	N/A	356	Transmission (Interstate, Interutilities), GCs and Gas Analyzers. Use manufacturing specs. See Notes in Appendix 9.
Gas Quality Equipment	SoCalGas Territory	87	N/A	815	Transmission (Producers), Gas Analyzers. Use manufacturing specs. See Notes in Appendix 9.
Gas Quality Equipment	SoCalGas Territory	43	N/A	38	Transmission (Producers), Gas Sample/Quality Tests. Use manufacturing specs. See Notes in Appendix 9.
Odorizer	SoCalGas Territory	52	N/A	791	YZ Odorizer. Use manufacturing specs. See Notes in Appendix 9.
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Header column "Comment" boxes displayed below for reference.	
Column Heading	Description and Definition of Required Contents (IF not self-explanatory)
Tab: 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.

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Header column "Comment" boxes displayed below for reference.	
Column Heading	Description and Definition of Required Contents (IF not self-explanatory)
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	<p>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.)</p> <p>(For days leaking for leaks carried over use January 1st as start date for emissions calculations.)</p> <p>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.</p>
Emission Factor (Mscf/Day)	
Annual Emissions (Mscf)	
Explanatory Notes / Comments	
Tab: All Damages	
ID	
Geographic Location	GIS, zip code, or equivalent
Damage Type	<p>E = excavation damage</p> <p>N = natural force damage</p> <p>O = other outside force damage</p>
Pipe Material	<p>PB = cathodically protected steel, bare</p> <p>PC = cathodically protected steel, coated</p> <p>UB = unprotected steel, bare</p> <p>UC = unptotected steel, coated</p>
Pipe Size (nominal)	
Pipe Age (months)	
Pressure (psi)	MOP = maximum operating pressure over the past year

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

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Header column "Comment" boxes displayed below for reference.	
Column Heading	Description and Definition of Required Contents (IF not self-explanatory)
ID	
Geographic Location	GIS, zip code, or equivalent
Number of Blowdown Events	
Annual Emissions (Mscf)	
Explanatory Notes / Comments	Provide method of calculation and example of formula.
Tab: Component Vented Emissions	
Geographic Location	GIS, zip code, or equivalent
Device Type	C = connector O = open-ended line M = meter P = pneumatic device PR = pressure relief valve V = valve
Bleed Rate	L = low bleed I = intermittent bleed H = high bleed NA = not applicable
Manufacturer	
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.
Tab: Component Leaks	
ID	
Geographic Location	GIS, zip code, or equivalent

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Header column "Comment" boxes displayed below for reference.	
Column Heading	Description and Definition of Required Contents (IF not self-explanatory)
Device Type	C = connector O = open-ended line M = meter P = pneumatic device PR = pressure relief valve V = valve
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.
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.
Annual Emissions (Mscf)	
Explanatory Notes / Comments	
Tab: Odorizers	
ID	
Geographic Location	GIS, zip code, or equivalent

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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 Units	
Emission Factor (Mscf/yr)	
Annual Emission (Mscf)	All of the emissions from the odorizing process and equipment.
Explanatory Notes / Comments	