

SoCalGas, June 15th, 2021

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 - 2021 June Report
Appendix 1 - Rev. 03/30/21

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	0.4	1 Mile - For 2020, the INGAA Greenhouse Gas
Transmission	SoCalGas Territory	PC	All	All	All	All	All	N/A	N/A	N/A	N/A	N/A	0.38		3,340 Miles - For 2020, 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.
														1,254	
7109219	92304	PC	16	756	936	Code 2	B	3/12/2019	4/3/2020	N/A	N/A	366	N/A	N/A	Pipeline leak associated with Pipeline Integrity work on Line 6916
7109219	92304	PC	16	756	936	Code 2	B	3/12/2019	4/2/2020	N/A	N/A	366	N/A	N/A	Pipeline leak associated with Pipeline Integrity work on Line 6917
7109219	92304	PC	16	756	936	Code 2	B	3/12/2019	4/2/2020	N/A	N/A	366	N/A	N/A	Pipeline leak associated with Pipeline Integrity work on Line 6918
7109219	92304	PC	16	756	936	Code 2	B	3/12/2019	4/2/2020	N/A	N/A	366	N/A	N/A	Pipeline leak associated with Pipeline Integrity work on Line 6919
7109221	92304	PC	16	756	812	Code 2	B	3/12/2019	4/1/2020	N/A	N/A	366	N/A	N/A	Pipeline leak associated with Pipeline Integrity work on Line 6920
7263266	90231	PC	12	633	204	Code 1	B	2/28/2020	2/28/2020	N/A	N/A	1	N/A	N/A	Related to a Transmission Integrity Mgmt on Line 317
7267324	93314	PC	16	672	771	Code 2	B	2/26/2020	2/29/2020	N/A	N/A	1	N/A	N/A	Related to a Transmission Integrity Mgmt on Line 293
7282930	92304	PC	16	756	812	Code 2	B	3/23/2020	4/1/2020	N/A	N/A	1	N/A	N/A	Pipeline leak associated with Pipeline Integrity work on Line 6919
7334390	93250	PC	16	672	718	Code 1	B	5/14/2020	5/16/2020	N/A	N/A	2	N/A	N/A	Related to a Transmission Integrity Mgmt on Line 7000
Sum total														1,254.57	

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

[illegible]

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Transmission Pipeline Blowdowns:

ID	Geographic Location	Number of Blowdown Events	Annual Emissions (Mscf)	Explanatory Notes / Comments
NA	Various Locations	175	864.48	SoCalGas Pigging Operation Launcher/Receiver Emissions
NA	Various Locations	640	1.67	Transmission Odor Intensity Tests
300784404	90080	1	2,091.00	Pipeline Blowdown associated with Leak Repair
300781675	92240	1	301.00	Pipeline Blowdown associated with Leak Repair
300781675	92240	1	425.95	Pipeline Blowdown associated with Leak Repair
300781675	92240	1	311.86	Pipeline Blowdown
300796236	90640	1	299.00	Pipeline Blowdown associated with Pigging
300790825	93314	1	472.74	Pipeline Blowdown
300789608	93014	1	30.00	Pipeline Blowdown associated with Pipeline Safety Enhancement Plan Project
300789608	93014	1	3.00	Pipeline Blowdown associated with Pipeline Safety Enhancement Plan Project
300794928	92368	1	713.00	Pipeline Blowdown
300745820	91748	1	683.00	Pipeline Blowdown
300745820	91748	1	683.00	Pipeline Blowdown associated with Pipeline Safety Enhancement Plan Project
300790891	91189	1	63.05	Pipeline Blowdown
300784346	90080	1	133.74	Pipeline Blowdown
300785856	90066	1	2962.78	Pipeline Blowdown
300784346	90080	1	2892.56	Pipeline Blowdown associated with Pipeline Safety Enhancement Plan Project
300791752	91436	1	1023.84	Pipeline Blowdown associated with Pipeline Safety Enhancement Plan Project
300791752	91436	1	1126.00	Pipeline Blowdown associated with Pipeline Safety Enhancement Plan Project
300791752	91436	1	830.00	Pipeline Blowdown associated with Pipeline Safety Enhancement Plan Project
300801128	91436	1	280.00	Pipeline Blowdown associated with Pigging
300745820	91748	1	3.00	Pipeline Blowdown associated with Pigging
300745820	91748	1	3.00	Pipeline Blowdown associated with Leak Repair
300805367	93510	1	428.00	Pipeline Blowdown
300796589	91803	1	476.00	Pipeline Blowdown associated with Pigging
300805237	92307	1	1337.00	Pipeline Blowdown associated with Pigging
300805237	92307	1	2028.00	Pipeline Blowdown
300803227	93066	1	307.00	Pipeline Blowdown
300801915	93002	1	203.00	Pipeline Blowdown associated with Pipeline Safety Enhancement Plan Project
300801452	93002	1	51.00	Pipeline Blowdown associated with Leak Repair
300793200	92846	1	1885.00	Pipeline Blowdown
300786472	91710	1	0.00	Pipeline Blowdown
300803149	91367	1	59.00	Pipeline Blowdown
300802969	92332	1	1350.00	Pipeline Blowdown
300803287	91436	1	184.00	Pipeline Blowdown associated with Leak Repair
	NA	1	13.00	Pipeline Blowdown
300784450	90245	1	1428.00	Pipeline Blowdown

300784346	90080	1	752.00 Pipeline Blowdown
300784346	90080	1	15.00 Pipeline Blowdown
300784346	90080	1	134.00 Pipeline Blowdown
300802689	90640	1	495.00 Pipeline Blowdown associated with Pipeline Safety Enhancement Plan Project
300801129	93001	1	33.00 Pipeline Blowdown
300804594	92850	1	94.00 Pipeline Blowdown
300805232	91380	1	859.00 Pipeline Blowdown
300769250	92674	1	114.00 Pipeline Blowdown
300789247	92674	1	114.00 Pipeline Blowdown
300780165	90245	1	1.00 Pipeline Blowdown
300784346	90080	1	74.00 Pipeline Blowdown associated with Leak Repair
300805273	92332	1	22,320.00 Pipeline Blowdown associated with Leak Repair
300805273	92332	1	17,891.00 Pipeline Blowdown
300805887	93251	1	83.40 Pipeline Blowdown
300803608	93268	1	102.60 Pipeline Blowdown
300783720	91393	1	401.00 Pipeline Blowdown
300802348	93313	1	1.86 Pipeline Blowdown
300793163	93544	1	2,551.00 Pipeline Blowdown
300793163	93544	1	3,419.00 Pipeline Blowdown associated with Leak Repair
NA	Various Locations	1	28.00 Tie-in Project
NA	Various Locations	69	575.00 Drips - Pipeline Drip Accumulation - Estimated avg. gas vented = 10,000 cfh for 5min/device
NA	Various Locations	15	0.45 Filter Change-outs or Filter Inspections w/parts replacement - Estimated avg. gas vented = 30 scf/inspection
NA	Various Locations	42	0.08 LineBreaks - Estimated avg. gas vented = 2 scf/insp
NA	Various Locations	2	0.05 Meter Inspections - 25 scf/inspection
NA	Various Locations	21	0.42 Relief Valve Inspections at Transmission Pipeline - Estimated avg. gas vented = 20 scf/inspection
NA	Various Locations	2	0.00 Analyzers & Gas chromatograph 2scf/inspection
NA	Various Locations	141	0.282 Pneumatic Device Annual Inspections (actuators & Controllers) - Estimated avg. gas vented = 2 scf/insp

76,005.82

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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
34	P	I	BECKER	0.0576	714.82	Actuator
41	P	I	BETTIS	0.0576	861.98	Actuator
2	P	I	CAMERON	0.0576	42.05	Actuator
1	P	I	GENELECT	0.0576	21.02	Actuator
56	P	I	HKC	0.0576	1177.34	Actuator
5	P	I	LEDEEN	0.0576	105.12	Actuator
1	P	I	NORDSTRO	0.0576	21.02	Actuator
6	P	I	Nordstrom	0.0576	126.14	Actuator
11	P	I	ROTORK	0.0576	231.26	Actuator
2	P	I	Shafer	0.0576	42.05	Actuator
1	P	I	VRG	0.0576	21.02	Actuator
2	P	I	VRG CONTROLS	0.0576	42.05	Actuator
125	P	I	Actuator	0.0576	2628.00	Actuator
2	P	I	BECKER	0.0576	42.05	Controller
1	P	I	BRISTOL	0.0576	21.02	Controller
1	P	I	FISHER	0.0576	21.02	Controller
12	P	I	Controller	0.0576	252.29	Controller
					6,370	

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Use a formula-derived value with the formula used in the Annual Emissions column. Do not use a copy and paste-as-value.

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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:

Transmission Pipeline Component Fugitive Leaks:											12/31/2020	1/1/2020
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)	
7075366	92248	V	NA	NA	7/15/2019	1/20/2021	365	N/A	N/A	Valve component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	3/28/2019	
7099402	92394	V	NA	NA	8/5/2019	6/26/2020	177	N/A	N/A	Valve component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	3/26/2019	
7123979	92011	C	NA	NA	9/11/2019	12/2/2020	336	N/A	N/A	connector component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	3/22/2019	
7123983	92008	V	NA	NA	9/11/2019	1/28/2020	27	N/A	N/A	Valve component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	3/22/2019	
7124044	93022	V	NA	NA	9/13/2019	9/29/2020	272	N/A	N/A	Valve component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	6/12/2019	
7148594	90274	V	NA	NA	10/18/2019	10/2/2020	275	N/A	N/A	Valve component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	9/13/2019	
7153370	91394	V	NA	NA	10/16/2019	5/5/2020	125	N/A	N/A	Valve component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	9/3/2019	
7153370	91394	V	NA	NA	10/29/2019	4/17/2020	107	N/A	N/A	Valve component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	9/3/2019	
7172196	92690	P	NA	NA	11/21/2019		365	N/A	N/A	Pneumatic component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	8/27/2019	
7197926	93251	C	NA	NA	12/18/2019	10/26/2020	299	N/A	N/A	connector component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	11/8/2019	
7228221	92236	C	NA	NA	1/21/2020	5/9/2020	129	N/A	N/A	connector component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	8/29/2019	
7253968	92338	V	NA	NA	2/18/2020	2/19/2020	49	N/A	N/A	Valve component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	8/29/2019	
7253983	91322	V	NA	NA	2/18/2020	3/14/2020	73	N/A	N/A	Valve component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	9/10/2019	
7267413	92363	C	NA	NA	3/5/2020	3/5/2020	51	N/A	N/A	connector component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	1/14/2020	
7267483	92394	P	NA	NA	3/5/2020	3/6/2020	65	N/A	N/A	Pneumatic component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	8/29/2019	
7281614	92344	V	NA	NA	3/9/2020	3/9/2020	68	N/A	N/A	Valve component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	9/30/2019	
7288009	93388	C	NA	NA	3/7/2020	8/6/2020	218	N/A	N/A	connector component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	9/17/2019	
7288037	93552	V	NA	NA	2/26/2020	11/24/2020	328	N/A	N/A	Valve component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	8/29/2019	
7307531	91752	V	NA	NA	3/5/2020		365	N/A	N/A	Valve component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	9/9/2019	
7309843	92801	P	NA	NA	4/15/2020	7/25/2020	197	N/A	N/A	Pneumatic component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	1/10/2020	
7333298	93203	V	NA	NA	4/8/2020		276	N/A	N/A	Valve component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	3/30/2020	
7333298	93203	C	NA	NA	4/8/2020		276	N/A	N/A	connector component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	3/30/2020	
7334596	92365	V	NA	NA	5/19/2020	5/28/2020	97	N/A	N/A	Valve component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	2/21/2020	
7341523	92239	C	NA	NA	5/28/2020	5/28/2020	97	N/A	N/A	connector component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	2/21/2020	
7360520	93204	V	NA	NA	5/19/2020		276	N/A	N/A	Valve component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	3/30/2020	
7377573	92008	V	NA	NA	7/9/2020	12/1/2020	272	N/A	N/A	Valve component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	3/4/2020	
7395367	91392	C	NA	NA	8/1/2020	8/1/2020	9	N/A	N/A	connector component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	7/23/2020	
7413280	93251	V	NA	NA	6/12/2020		233	N/A	N/A	Valve component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	5/12/2020	
7413281	93251	V	NA	NA	6/12/2020		233	N/A	N/A	Valve component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	5/12/2020	
7422335	92363	C	NA	NA	9/1/2020	9/1/2020	62	N/A	N/A	connector component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	7/1/2020	
7422405	92555	C	NA	NA	9/2/2020	9/15/2020	180	N/A	N/A	connector component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	3/19/2020	
7446446	92344	V	NA	NA	9/26/2020	1/25/2021	287	N/A	N/A	Valve component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	3/19/2020	
7460056	91255	C	NA	NA	10/13/2020	10/13/2020	155	N/A	N/A	connector component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	5/11/2020	
7463467	92226	C	NA	NA	10/10/2020	10/11/2020	65	N/A	N/A	connector component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	8/7/2020	
7470736	93276	V	NA	NA	9/23/2020		283	N/A	N/A	Valve component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	3/23/2020	
7486942	92239	C	NA	NA	11/14/2020	11/19/2020	105	N/A	N/A	connector component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	8/6/2020	
7490427	92239	P	NA	NA	11/18/2020	11/19/2020	105	N/A	N/A	Pneumatic component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	8/6/2020	
7513377	92018	V	NA	NA	12/11/2020	12/11/2020	87	N/A	N/A	Valve component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	9/15/2020	
7515086	92220	V	NA	NA	12/18/2020	12/18/2020	108	N/A	N/A	Valve component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	9/1/2020	
7515086	92220	V	NA	NA	12/18/2020	12/18/2020	108	N/A	N/A	Valve component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	9/1/2020	
7154696	92334	C	NA	NA	11/4/2019	9/16/2020	259	N/A	N/A			

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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	54.38	Transmission (BTU, Gas Quality), Gas Chromatographs (GC). Use manufacturing specs. See Notes in Appendix 9.
Gas Quality Equipment	SoCalGas Territory	22	N/A	568.61	Located in Storage, GCs and Gas Analyzers. Use manufacturing specs. See Notes in Appendix 9.
Gas Quality Equipment	SoCalGas Territory	20	N/A	353.94	Transmission (Interstate, Interutilities), GCs and Gas Analyzers. Use manufacturing specs. See Notes in Appendix 9.
Gas Quality Equipment	SoCalGas Territory	84	N/A	946.05	Transmission (Producers), Gas Analyzers. Use manufacturing specs. See Notes in Appendix 9.
Gas Quality Equipment	SoCalGas Territory	43	N/A	35.63	Transmission (Producers), Gas Sample/Quality Tests. Use manufacturing specs. See Notes in Appendix 9.
Odorizer	SoCalGas Territory	43	N/A	666.99	YZ Odorizer. Use manufacturing specs. See Notes in Appendix 9.
Sum total				2625.59	

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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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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	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

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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	Provide method of calculation and example of formula. Explain how any EF's used were derived.
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	