

SDG&E, June 13th, 2025
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 2025 June Report
Appendix 5; Rev. 03/27/2025

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.

Distribution M&R Station Leaks and Emissions (Informational Purposes Only)

Number of Stations	Station Classification	Emission Factor (Mscf/yr)	Annual Emissions (Mscf)	Explanatory Notes / Comments
2	A1	40.6	81	2024 EOY Above Grade < 100 psi Actual Inlet Press
13	A2	896.5	11,655	2024 EOY Above Grade 100 - 300 psi Actual Inlet Press
31	A3	1,684.5	52,220	2024 EOY Above Grade > 300 psi Actual Inlet Press
9	B1	1.0	9	2024 EOY Below Grade < 100 psi Actual Inlet Press
97	B2	1.8	178	2024 EOY Below Grade 100 - 300 psi Actual Inlet Press
308	B3	12.2	3,750	2024 EOY Below Grade > 300 psi Actual Inlet Press
Sum Total			67,893	

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.
After completing the tab on "Leak Based - Station Emissions" and "Station - Unknown Leaks" fill in the table for "Leak Based - Emissions Summary."

Distribution M&R Station Leaks:

ID	Geographic Location	M&R Station or Farm Tap Classification	Component Type	Incoming Pressure (psi)	Leak Grade	Upgraded Leak Grade or Downgraded Leak Grade	Leak Discovery Method	Discovery Date (MM/DD/YY)	Re-Grade 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	Number of Days to Repair	Emission Factor (Mscf/Day)	Annual Emissions (Mscf)	Explanatory Notes / Comments
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Not Applicable

Sum Total Emissions from leaks carried over from before 2024 Provided as an example.

Sum Total Emissions from leaks discovered in 2024 Provided as an example.

Sum Total Emissions from O&M Leaks discovered in 2024 Provided as an example.

Grand Total of all 2024 emissions from leaks Provided as an example.

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Notes:

If highlighted cells are filled in, the other cells will auto-populate

Summary of Data by Distribution M&R Station Results for Annual System Leak Rate and Resulting Number of Unknown Leaks calculated for M&R Station

M&R Station Classification; Leak Grade or Bubble Size Category if available.	Total System M&R Station per survey Cycle	M&R Station on Annual Survey [MX,A]	M&R Station on Multi-Year Survey Cycles [MXTot]	Survey Interval (yrs) [I]	M&R Station Surveyed Annually from Multi-Year Survey Cycles [MX,I]	Total # of Leaks Detected from Survey [N _{XL}]	Annual Leak Rate [Leaks / Meter] $R_X = \frac{N_{XL}}{M_{XA} + (I \times M_{XD})}$	# of Unknown Leaks $N_{X,unk} = R_X \times (M_X^{Tot} - M_{XL}) \times \frac{I}{2}$	Total # of Leaks Detected from O&M* [N _{XO}]
Not Applicable				1			-	-	
				3			-	-	
				5			-	-	
				1			-	-	
				3			-	-	
				5			-	-	
				1			-	-	
				3			-	-	
				5			-	-	
				1			-	-	
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				1			-	-	
				3			-	-	
				5			-	-	
				1			-	-	
				3			-	-	
				5			-	-	
				1			-	-	
				3			-	-	
				5			-	-	
Total	0	0	0	N/A	0	0		0	0

Estimated Emissions by Leak Code

Leakage Category	Emission Factor (Mscf/day/leak)	Emissions from Leaks Detected from Survey (Mscf)	Emissions from O&M* Leaks Detected (Mscf)	Estimated Emissions from Unknown Leaks (Mscf)	Total Estimated Emissions from Leaks (Mscf)
Facility/Material					
Total	N/A	0	0	0	

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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

Distribution M&R Station 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
												Sum Total	0	

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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

Distribution M&R Station Blowdowns:

ID	Geographic Location	Number of Blowdown Events	Annual Emissions (Mscf)	Explanatory Notes / Comments
N/A	SDG&E Territory	2,149	8.6	External District Reg. Inspection at Distribution M&R Stations - Estimated avg. gas vented = 4 scf/insp
N/A	SDG&E Territory	12	0.4	Filter Change out or Filter Inspection w/parts replacement at Distribution M&R Stations - Estimated avg. gas vented = 30 scf/ea
N/A	SDG&E Territory	510	9.0	M&R Station Inspection Blowdowns
N/A	SDG&E Territory	187	2.2	Reg. Change out & Internal Reg. Inspection at Distribution M&R Stations - Estimated avg. gas vented = 12 scf/ea
N/A	SDG&E Territory	44	0.5	Straight Install/Remove Reg Activity at Distribution M&R Stations - Estimated avg. gas vented = 12 scf/ea
		Sum Total	21	

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The data collected on this sheet is for informational purposes and may not be included in the emissions inventory for 2024. The worksheet is designed to track actual emissions for future reference and to determine if an actual leak based emission accounting is feasible for M&R stations.

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 on the Blowdowns worksheet.

ID	Geographic Location	Station Classification	Device Type	Bleed Rate	Manufacturer	Number of Days Emitting	Engineering or Manufacturer's based Estimate of Emissions	Annual Emissions (Mscf)	Explanatory Notes / Comments
							Sum Total	0	

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Notes:
The data collected on this sheet is for informational purposes and will not be included in the emissions inventory for 2024. The worksheet is designed to track actual leaks for future reference and to determine if an actual leak based emission accounting is feasible for M&R stations.
If you recant data using this table and you only leak survey part of your system, you must extrapolate emissions from leaks up to account for emissions from your entire system for the 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.
The emissions captured on this tab represent the emissions associated with 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.

Distribution M&R Station Component Fugitive Leaks:

Note: EPA EFs in units of methane were divided by 0.934 to convert to units of natural gas under the assumption that gas contains approximately 93.4% methane by volume.

ID	Geographic Location	Station Classification	Device Type	Bleed Rate	Manufacturer	Pressure (psi)	Discovery Date (MM/DD/YYYY)	Repair Date (MM/DD/YYYY)	Number of Days Leaking	Emission Factor (lb/cf/day)	Annual Emissions (Mscf)	Explanatory Notes / Comments
100026157642	92115	B3	C	Greater than 60	Greater than 60	Greater than 60	6/7/2024	6/7/2024	159	0.7077	11.24	M&R Leak
100026464074	92154	B2	C	Greater than 60	Greater than 60	Greater than 60	8/13/2024	8/13/2024	226	0.7077	15.97	M&R Leak
100025109164	92028	A3	R	Greater than 60	Greater than 60	Greater than 60	2/27/2024	2/27/2024	58	0.0321	1.86	M&R Leak
100026188316	92136	B2	C	Greater than 60	Greater than 60	Greater than 60	6/14/2024	6/14/2024	166	0.7077	11.73	M&R Leak
100024298276	92035	B3	C	Greater than 60	Greater than 60	Greater than 60	2/23/2024	2/23/2024	54	0.7077	3.82	M&R Leak
100025548621	91950	B2	C	Greater than 60	Greater than 60	Greater than 60	2/22/2024	2/22/2024	53	0.7077	3.75	M&R Leak
100025260333	92130	B3	C	Greater than 60	Greater than 60	Greater than 60	2/22/2024	2/22/2024	53	0.7077	3.75	M&R Leak
100024488099	92075	B3	BV	Greater than 60	Greater than 60	Greater than 60	2/7/2024	2/7/2024	38	0.0236	0.90	M&R Leak
100026647081	92028	B3	C	Greater than 60	Greater than 60	Greater than 60	11/8/2024	11/8/2024	313	0.7077	22.12	M&R Leak
100026423970	92130	A3	C	Greater than 60	Greater than 60	Greater than 60	9/9/2024	9/9/2024	253	0.7077	17.88	M&R Leak
1000264639543	92020	B3	C	Greater than 60	Greater than 60	Greater than 60	9/30/2024	9/30/2024	274	0.7077	19.36	M&R Leak
1000253117948	92028	A3	C	Greater than 60	Greater than 60	Greater than 60	1/12/2024	1/12/2024	12	0.7077	0.85	M&R Leak
100025260355	92028	A3	C	Greater than 60	Greater than 60	Greater than 60	2/27/2024	2/27/2024	58	0.7077	4.10	M&R Leak
100026166316	91942	B3	C	Greater than 60	Greater than 60	Greater than 60	6/10/2024	6/10/2024	162	0.7077	11.45	M&R Leak
100025258956	92084	B2	BV	Greater than 60	Greater than 60	Greater than 60	4/24/2024	4/24/2024	115	0.0236	2.71	M&R Leak
100026828121	92113	B3	C	Greater than 60	Greater than 60	Greater than 60	11/21/2024	11/21/2024	326	0.7077	23.04	M&R Leak
100025260330	92084	B2	C	Greater than 60	Greater than 60	Greater than 60	4/24/2024	4/24/2024	115	0.7077	8.13	M&R Leak
100025584029	92084	B2	C	Greater than 60	Greater than 60	Greater than 60	2/26/2024	2/26/2024	57	0.7077	4.03	M&R Leak
100025267119	92131	B3	C	Greater than 60	Greater than 60	Greater than 60	1/8/2024	1/8/2024	3	0.7077	0.21	M&R Leak
100026908524	92056	B3	C	Greater than 60	Greater than 60	Greater than 60	12/2/2024	12/2/2024	337	0.7077	23.81	M&R Leak
100026147990	92009	B3	R	Greater than 60	Greater than 60	Greater than 60	6/6/2024	6/6/2024	158	0.0321	5.07	M&R Leak
100025701979	92114	B1	C	Greater than 60	Greater than 60	Greater than 60	3/21/2024	3/21/2024	81	0.7077	5.72	M&R Leak
100025490653	92082	A3	C	Greater than 60	Greater than 60	Greater than 60	2/8/2024	2/8/2024	39	0.7077	2.76	M&R Leak
100026107126	91910	B3	C	Greater than 60	Greater than 60	Greater than 60	5/30/2024	5/30/2024	151	0.7077	10.67	M&R Leak
100026748667	92131	B3	C	Greater than 60	Greater than 60	Greater than 60	10/30/2024	10/30/2024	304	0.7077	21.48	M&R Leak
100025875351	92027	B3	C	Greater than 60	Greater than 60	Greater than 60	4/23/2024	4/23/2024	114	0.7077	8.06	M&R Leak
100026805052	92084	B2	C	Greater than 60	Greater than 60	Greater than 60	11/14/2024	11/14/2024	319	0.7077	22.54	M&R Leak
100026724541	92121	B3	C	Greater than 60	Greater than 60	Greater than 60	10/23/2024	10/23/2024	297	0.7077	20.99	M&R Leak
100025538253	92084	B2	C	Greater than 60	Greater than 60	Greater than 60	2/20/2024	2/20/2024	51	0.7077	3.60	M&R Leak
100026723197	92121	B3	C	Greater than 60	Greater than 60	Greater than 60	10/23/2024	10/23/2024	297	0.7077	20.99	M&R Leak
100025386364	92084	B2	BV	Greater than 60	Greater than 60	Greater than 60	2/20/2024	2/20/2024	51	0.0236	1.20	M&R Leak
100025392137	92075	B2	C	Greater than 60	Greater than 60	Greater than 60	1/20/2024	1/20/2024	20	0.7077	1.41	M&R Leak
100026143339	92009	B3	C	Greater than 60	Greater than 60	Greater than 60	6/6/2024	6/6/2024	158	0.7077	11.16	M&R Leak
100026421793	92120	B3	BV	Greater than 60	Greater than 60	Greater than 60	9/4/2024	9/4/2024	248	0.0236	5.84	M&R Leak
100025793696	92064	B3	C	Greater than 60	Greater than 60	Greater than 60	4/9/2024	4/9/2024	94	0.7077	6.64	M&R Leak
100025542673	92129	B3	C	Greater than 60	Greater than 60	Greater than 60	2/21/2024	2/21/2024	52	0.7077	3.67	M&R Leak
100025320337	92028	A3	R	Greater than 60	Greater than 60	Greater than 60	1/12/2024	1/12/2024	12	0.0321	0.39	M&R Leak
100025451977	92124	B3	C	Greater than 60	Greater than 60	Greater than 60	3/7/2024	3/7/2024	67	0.7077	4.73	M&R Leak
100025604464	92037	B2	BV	Greater than 60	Greater than 60	Greater than 60	5/17/2024	5/17/2024	138	0.0236	3.25	M&R Leak
100025107662	92130	B3	R	Greater than 60	Greater than 60	Greater than 60	2/22/2024	2/22/2024	53	0.0321	1.70	M&R Leak
100025452019	92021	A2	C	Greater than 60	Greater than 60	Greater than 60	3/5/2024	3/5/2024	65	0.7077	4.59	M&R Leak
100026172440	92110	A3	C	Greater than 60	Greater than 60	Greater than 60	6/11/2024	6/11/2024	163	0.7077	11.52	M&R Leak
100025749913	91942	B2	C	Greater than 60	Greater than 60	Greater than 60	3/26/2024	3/26/2024	86	0.7077	6.08	M&R Leak
100024929075	92054	B3	C	Greater than 60	Greater than 60	Greater than 60	1/8/2024	1/8/2024	8	0.7077	0.57	M&R Leak
100026775611	92064	B3	C	Greater than 60	Greater than 60	Greater than 60	11/5/2024	11/5/2024	310	0.7077	21.91	M&R Leak
100025745356	92114	B1	C	Less than or equal to 60	Less than or equal to 60	Less than or equal to 60	3/25/2024	3/25/2024	85	0.7077	6.01	M&R Leak
100026322711	91942	B2	C	Greater than 60	Greater than 60	Greater than 60	7/12/2024	7/12/2024	194	0.7077	13.71	M&R Leak
100026790176	92040	B3	C	Greater than 60	Greater than 60	Greater than 60	11/12/2024	11/12/2024	317	0.7077	22.40	M&R Leak
100025645330	92028	B3	C	Greater than 60	Greater than 60	Greater than 60	10/14/2024	10/14/2024	288	0.7077	20.35	M&R Leak
100026777728	91911	B3	C	Greater than 60	Greater than 60	Greater than 60	11/6/2024	11/6/2024	311	0.7077	21.98	M&R Leak
100025749843	92009	B3	C	Greater than 60	Greater than 60	Greater than 60	3/26/2024	3/26/2024	86	0.7077	6.08	M&R Leak
100026090757	92056	B3	C	Greater than 60	Greater than 60	Greater than 60	12/2/2024	12/2/2024	337	0.7077	23.81	M&R Leak
100025818187	92084	B2	C	Greater than 60	Greater than 60	Greater than 60	4/10/2024	4/10/2024	101	0.7077	7.14	M&R Leak
100025320339	92028	A3	R	Greater than 60	Greater than 60	Greater than 60	1/12/2024	1/12/2024	12	0.0321	0.39	M&R Leak
100025360332	92014	B3	C	Greater than 60	Greater than 60	Greater than 60	2/22/2024	2/22/2024	53	0.7077	3.75	M&R Leak
100025109493	92014	B3	R	Greater than 60	Greater than 60	Greater than 60	2/22/2024	2/22/2024	53	0.0321	1.70	M&R Leak
100025449064	92021	A2	BV	Greater than 60	Greater than 60	Greater than 60	3/5/2024	3/5/2024	65	0.0236	1.53	M&R Leak
100025613482	92118	B2	C	Greater than 60	Greater than 60	Greater than 60	3/2/2024	3/2/2024	61	0.7077	4.31	M&R Leak
100025279900	91977	B2	C	Greater than 60	Greater than 60	Greater than 60	1/3/2024	1/3/2024	3	0.7077	0.21	M&R Leak
100026908771	92131	B3	BV	Greater than 60	Greater than 60	Greater than 60	12/2/2024	12/2/2024	337	0.0236	7.94	M&R Leak
100025344565	92056	B3	C	Greater than 60	Greater than 60	Greater than 60	1/18/2024	1/18/2024	18	0.7077	1.27	M&R Leak
100025422143	92154	B3	C	Greater than 60	Greater than 60	Greater than 60	1/26/2024	1/26/2024	29	0.7077	2.05	M&R Leak
100025285203	92007	A2	C	Greater than 60	Greater than 60	Greater than 60	1/5/2024	1/5/2024	5	0.7077	0.35	M&R Leak
100026841494	92131	B3	C	Greater than 60	Greater than 60	Greater than 60	12/2/2024	12/2/2024	337	0.7077	23.81	M&R Leak
100026724540	92121	B3	C	Greater than 60	Greater than 60	Greater than 60	10/23/2024	10/23/2024	297	0.7077	20.99	M&R Leak
100025451976	92124	B3	C	Greater than 60	Greater than 60	Greater than 60	3/27/2024	3/27/2024	87	0.7077	6.15	M&R Leak
100025320714	92028	B3	BV	Greater than 60	Greater than 60	Greater than 60	1/12/2024	1/12/2024	12	0.0236	0.28	M&R Leak
100026385707	92130	A3	R	Greater than 60	Greater than 60	Greater than 60	9/9/2024	9/9/2024	253	0.0321	8.13	M&R Leak
100026421828	92084	B2	BV	Greater than 60	Greater than 60	Greater than 60	9/16/2024	9/16/2024	260	0.0236	6.12	M&R Leak
100024924375	92054	B3	BV	Greater than 60	Greater than 60	Greater than 60	1/8/2024	1/8/2024	8	0.0236	0.19	M&R Leak
100025544213	92154	A3	C	Greater than 60	Greater than 60	Greater than 60	2/21/2024	2/21/2024	52	0.7077	3.67	M&R Leak
100026464013	91977	B3	BV	Greater than 60	Greater than 60	Greater than 60	12/9/2024	12/9/2024	344	0.0236	8.10	M&R Leak
100026647132	92123	B3	C	Greater than 60	Greater than 60	Greater than 60	12/11/2024	12/11/2024	346	0.7077	24.45	M&R Leak

Sum Total 644

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Header column "Comment" boxes displayed below for reference.	
Column Heading	Description and Definition of Required Contents (If not self-explanatory)
Population - Station Emissions	
Number of Stations	
Station Classification	A1 = above grade, pressure <100 psi A2 = above grade, pressure =100-300 psi A3 = above grade, pressure >300 psi B1 = below grade, pressure <100 psi B2 = below grade, pressure =100-300 psi B3 = below grade, pressure >300 psi
Emission Factor (Mscf/yr)	
Annual Emissions (Mscf)	
Explanatory Notes / Comments	
Leak Based - Station Emissions	
ID	
Geographic Location	GIS, zip code, or equivalent
M&R Station or Farm Tap Classification	A1 = above grade, pressure <100 psi A2 = above grade, pressure = 100 - 300 psi A3 = above grade, pressure >300 psi B1 = below grade, pressure <100 psi B2 = below grade, pressure = 100 - 300 psi B3 = below grade, pressure > 300 psi F1 = farm tap, pressure <100 psi F2 = farm tap, pressure = 100 - 300 psi F3 = farm tap, pressure >300 psi
Component Type	C = copper CI = cast iron P = plastics (Acetyl, ABS, PE, PVC, etc.) PB = cathodically protected steel, bare PC = cathodically protected steel, coated UB = unprotected steel, bare UC = unprotected steel, coated
Incoming Pressure (psi)	
Leak Grade	
Upgraded Leak Grade or Downgraded Leak Grade	
Leak Discovery Method	
Discovery Date (MM/DD/YY)	
Re-Grade 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	
Number of Days to Repair	
Emission Factor (Mscf/Day)	
Annual Emissions (Mscf)	
Explanatory Notes / Comments	
Leak Based - Unknown Leaks	
M&R Station Classification; Leak Grade or Bubble Size Category if available.	Utilities should add rows according to their bubble size categories and nomenclature, and should include a no-bubble category. For example, include a row for each: Foam/ Indeterminate; Bubbles; Soap Blown Off; and No Bubbles.
Total System M&R Station per survey Cycle	
M&R Station on Annual Survey [MX,A]	
M&R Station on Multi-Year Survey Cycles [MXTot]	
Survey Interval (yrs) [I]	
M&R Station Surveyed Annually from Multi-Year Survey Cycles [MX,I]	
Total # of Leaks Detected from Survey [N _{x,L}]	
Annual Leak Rate [Leaks / Meter]	$R_x = \frac{N_{x,L}}{M_{x,A} + (I \times M_{x,I})}$
# of Unknown Leaks	$N_{x,unk} = \overline{R}_x \times (M_x^{Tot} - M_{x,I}) \times \frac{I}{2}$ <p>If the operator changed the leak survey cycle during the report year that requires more detailed calculations based on the approved calculation methodology to determine the number of unknown leaks an additional worksheet may be added to show the calculations.</p>
Total # of Leaks Detected from O&M* [N _{x,O}]	
Leak Based - Emissions Summary	
Grade if Applicable	
Count of Leaks Carried over from Prior Year	Based on a leak start date prior to the first day of the year of interest.
Count of Leaks Discovered in the Year of Interest	The total number of leaks by grade or category discovered in the year of interest.
Count of Leaks Repaired in the Year of Interest	If a leak is downgraded to not leaking, do not count it.
Average Days to Repair Leaks	The average days to repair leaks should be baase on the formula: (Repair Date/Time minus Discovery Date/Time) plus (one day, unless using a discrete time stamp for leak repairs), then take the sum and divide by number of leaks repaired by grade to get the average days to repair.

Count of Estimated Unsurveyed Leaks in the Year of Interest	For leaks identified in Unsurveyed areas extrapolate the proportion of leak counts by grade that were found in the respective areas based on the year or periods used to estimate the unsurveyed leak count. If the unsurveyed leak count was based on the current year leak count by grade detected then use the current proportion of graded leak count applied to the unsurveyed leaks.
Count of Remaining Leaks at final day of the Year of Interest (12/31/22)	This count is only of the actual leaks detected in the operator's system that have not been repaired as of 12/31 of the year of interest.
Emissions from Leaks Carried over from Prior Year.	Based on a leak start date prior to the first day of the year of interest. This includes leaks discovered through O&M and survey activities.
Emissions from Leaks Discovered in the Year of Interest.	The total number of leaks by grade or category discovered in the year of interest. This includes leaks discovered through O&M and survey activities.
Emissions from Estimated Unsurveyed Leaks in the Year of Interest	The emissions by grade would be on the same basis that used to extrapolate the count of leaks in the unsurveyed areas. For example: For leaks identified in Unsurveyed areas extrapolate the proportion of leak emissions by grade that were found in the respective areas based on the year or periods used to estimate the unsurveyed leak count. If the unsurveyed leak count was based on the current year leaks detected then use the current proportion of graded leaks applied to the unsurveyed leak emissions.
Total Emissions in the Year of Interest [Mscf of Natural Gas]	
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>
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>
Blowdowns	
ID	
Geographic Location	GIS, zip code, or equivalent
Number of Blowdown Events	
Annual Emissions (Mscf)	
Explanatory Notes / Comments	
Component Vented Emissions	
ID	
Geographic Location	GIS, zip code, or equivalent
Station Classification	<p>A1 = above grade, pressure <100 psi</p> <p>A2 = above grade, pressure =100-300 psi</p> <p>A3 = above grade, pressure >300 psi</p> <p>B1 = below grade, pressure <100 psi</p> <p>B2 = below grade, pressure =100-300 psi</p> <p>B3 = below grade, pressure >300 psi</p>
DeviceType	<p>C = connector</p> <p>OE = open-ended line</p> <p>M = meter</p> <p>P = pneumatic device</p> <p>PR = pressure relief valve</p> <p>V = valve</p> <p>O = other devices</p>
Bleed Rate	<p>L = low bleed</p> <p>I = intermittent bleed</p> <p>H = high bleed</p> <p>NA = not applicable</p>
Manufacturer	
NumberofDays Emitting	Because the emissions are a factor of design or function, these emissions counted for the entire year.

Engineering or Manufacturer's based Estimate of Emissions	
Annual Emissions(Mscf)	<p>The emissions should be based on 365 days times the actual volume emitting if known, or the approved Emissions Factor.</p> <p>Note whether the emissions are based on actual volumetric measures in the next column.</p>
Explanatory Notes / Comments	
Component Fugitive Leaks	
ID	
Geographic Location	GIS, zip code, or equivalent
Station Classification	<p>A1 = above grade, pressure <100 psi A2 = above grade, pressure =100-300 psi A3 = above grade, pressure >300 psi B1 = below grade, pressure <100 psi B2 = below grade, pressure =100-300 psi B3 = below grade, pressure >300 psi</p>
DeviceType	<p>C = connector OE = open-ended line M = meter P = pneumatic device PR = pressure relief valve V = valve O = other devices</p>
Bleed Rate	<p>L = low bleed I = intermittent bleed H = high bleed NA = not applicable</p>
Manufacturer	
Pressure(psi)	MOP = maximum operating pressure over the past year
Discovery Date(MM/DD/YY)	<p>List the actual discovery date.</p> <p>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.</p>
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.
NumberofDays Leaking	<p>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.</p> <p>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.</p>
Emission Factor(Mscf/day)	
Annual Emissions(Mscf)	
Explanatory Notes / Comments	