

SoCalGas, June 15, 2018

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 2018 June Report

Appendix 5; Rev. 03/31/2018

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

Number of Stations	Station Classification	Emission Factor (Mscf/yr/ station)	Annual Emissions (Mscf)	Explanatory Notes / Comments
130	B1	0.964	125	
944	B2	1.84	1,737	
649	B3	12.176	7,902	
8	A1	40.6	325	
67	A2	896.5	60,066	
165	A3	1,684.5	277,943	
		Sum Total	348,097	

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 In Response to Data Request, R15-01-008 - 2018 June Report
 Appendix 5 - Rev. 03/31/18

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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
520001644844 1	91759	O	N/A	N/A	N/A	468	AH	A	8/11/2017	8/11/2017	1	N/A	22.8	
												Sum Total	22.8	

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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	Pipe Size (nominal) (in)	Length of Pipe (ft)	Pressure (psi)
N/A	SoCalGas Territory	N/A	0.04	Abandoned Piping in Reg Stations	2	84	323
N/A	SoCalGas Territory	N/A	3.43	Abandoned Piping in Reg Stations	4	1,606	323
N/A	SoCalGas Territory	N/A	1.58	Abandoned Piping in Reg Stations	6	329	323
N/A	SoCalGas Territory	N/A	1.66	Abandoned Piping in Reg Stations	8	194	323
N/A	SoCalGas Territory	N/A	0.16	Abandoned Piping in Reg Stations	10	12	323
N/A	SoCalGas Territory	16,222	64.89	External District Reg. Inspection at Distribution M&R Stations - Estimated avg. gas vented = 4 scf/insp	N/A	N/A	N/A
N/A	SoCalGas Territory	2,067	24.80	Reg. Change out & Internal Reg. Inspection at Distribution M&R Stations - Estimated avg. gas vented = 12 scf/ea	N/A	N/A	N/A
N/A	SoCalGas Territory	39	0.78	Relief Valve Inspection at Distribution M&R Stations - Estimated avg. gas vented = 20 scf/insp (annual test with Nitrogen, gas vented is volume of gas in valve)	N/A	N/A	N/A
N/A	SoCalGas Territory	64	1.92	Orifice Plate Inspection at BTU Districts - Estimated avg. gas vented = 30 scf/insp	N/A	N/A	N/A
N/A	SoCalGas Territory	129	0.26	Pneumatic Device Inspection - Estimated avg. gas vented = 2 scf/insp	N/A	N/A	N/A
N/A	SoCalGas Territory	8	0.24	Filter Change out or Filter Inspection w/parts replacement - Estimated avg. gas vented = 30 scf/ea	N/A	N/A	N/A
	Sum Total		100				

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Notes:

If you record 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 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.

Distribution M&R Station Component Vented Emissions:

ID/Number of Devices	Geographic Location	Device Type	Bleed Rate	Manufacturer	Number of Days Emitting	Engineering or Manufacturer's based Estimate of Emissions (Mscf/day/dev)	Annual Emissions (Mscf)	Explanatory Notes / Comments
48	SoCalGas Territory	P	I	Becker	365	0.0576	N/A	Intermittent Bleed Pneumatic Device emissions are included in Distribution M&R Above Grade Station emission factors.
2	SoCalGas Territory	P	L	Fisher	365	0.4457	N/A	Low Bleed Pneumatic Device emissions are included in Distribution M&R Above Grade Station emission factors.
23	SoCalGas Territory	P	I	Becker	365	0.0576	N/A	Intermittent Bleed Pneumatic Device emissions are included in Distribution M&R Above Grade Station emission factors.
Sum Total							0	

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Notes:

If you record 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 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:

ID	Geographic Location	Device Type	Bleed Rate	Manufacturer	Pressure (psi)	Discovery Date (MM/DD/YY)	Repair Date (MM/DD/YY)	Number of Days Leaking	Emission Factor (Mscf/day)	Annual Emissions (Mscf)	Explanatory Notes / Comments
520001498618 1	92411	O	N/A	N/A	Less than or Equal to 60	1/1/2017	1/1/2017	1	N/A	N/A	Unknown component on Distribution M&R Station. Emissions included in facility emission factors.
520001498618 1	92411	O	N/A	N/A	Less than or Equal to 60	1/1/2017	1/1/2017	1	N/A	N/A	Mechanical Fitting component on Distribution M&R Station. Emissions included in facility emission factors.
520001498856 1	93224	O	N/A	N/A	Greater than 60	1/1/2017	1/1/2017	1	N/A	N/A	Pipe component on Distribution M&R Station. Emissions included in facility emission factors.
520001497122 1	90706	O	N/A	N/A	Less than or Equal to 60	1/1/2017	1/1/2017	1	N/A	N/A	Fitting Body or Seals component on Distribution M&R Station. Emissions included in facility emission factors.
520001497125 1	90713	O	N/A	N/A	Less than or Equal to 60	1/1/2017	1/1/2017	1	N/A	N/A	Fitting Body or Seals component on Distribution M&R Station. Emissions included in facility emission factors.
520001497136 1	90201	O	N/A	N/A	Less than or Equal to 60	1/1/2017	1/1/2017	1	N/A	N/A	Fitting Body or Seals component on Distribution M&R Station. Emissions included in facility emission factors.
520001497190 1	91775	O	N/A	N/A	Less than or Equal to 60	1/1/2017	1/1/2017	1	N/A	N/A	Fitting Body or Seals component on Distribution M&R Station. Emissions included in facility emission factors.
520001497191 1	91775	O	N/A	N/A	Less than or Equal to 60	1/1/2017	1/1/2017	1	N/A	N/A	Unknown component on Distribution M&R Station. Emissions included in facility emission factors.
520001497191 2	91775	O	N/A	N/A	Less than or Equal to 60	1/1/2017	1/1/2017	1	N/A	N/A	Fitting Body or Seals component on Distribution M&R Station. Emissions included in facility emission factors.
520001497194 1	91108	O	N/A	N/A	Less than or Equal to 60	1/1/2017	1/1/2017	1	N/A	N/A	Unknown component on Distribution M&R Station. Emissions included in facility emission factors.
520001497195 1	91108	O	N/A	N/A	Less than or Equal to 60	1/1/2017	1/1/2017	1	N/A	N/A	Fitting Body or Seals component on Distribution M&R Station. Emissions included in facility emission factors.
520001497196 1	91107	O	N/A	N/A	Less than or Equal to 60	1/1/2017	1/1/2017	1	N/A	N/A	Fitting Body or Seals component on Distribution M&R Station. Emissions included in facility emission factors.
520001497199 1	91024	O	N/A	N/A	Less than or Equal to 60	1/1/2017	1/1/2017	1	N/A	N/A	Pipe component on Distribution M&R Station. Emissions included in facility emission factors.
520001497261 1	91030	O	N/A	N/A	Less than or Equal to 60	1/1/2017	1/1/2017	1	N/A	N/A	Fitting Body or Seals component on Distribution M&R Station. Emissions included in facility emission factors.
520001497263 1	91105	O	N/A	N/A	Less than or Equal to 60	1/1/2017	1/1/2017	1	N/A	N/A	Fitting Body or Seals component on Distribution M&R Station. Emissions included in facility emission factors.
520001498511 1	90501	O	N/A	N/A	Less than or Equal to 60	1/1/2017	1/1/2017	1	N/A	N/A	Unknown component on Distribution M&R Station. Emissions included in facility emission factors.
520001498511 2	90501	O	N/A	N/A	Less than or Equal to 60	1/1/2017	1/1/2017	1	N/A	N/A	Unknown component on Distribution M&R Station. Emissions included in facility emission factors.
520001498540 1	90744	O	N/A	N/A	Less than or Equal to 60	1/1/2017	1/1/2017	1	N/A	N/A	Unknown component on Distribution M&R Station. Emissions included in facility emission factors.
520001498614 1	92509	O	N/A	N/A	Less than or Equal to 60	1/1/2017	1/1/2017	1	N/A	N/A	Pipe component on Distribution M&R Station. Emissions included in facility emission factors.
520001498617 1	92324	O	N/A	N/A	Less than or Equal to 60	1/1/2017	1/1/2017	1	N/A	N/A	Unknown component on Distribution M&R Station. Emissions included in facility emission factors.
520001498619 1	92376	O	N/A	N/A	Less than or Equal to 60	1/1/2017	1/1/2017	1	N/A	N/A	Pipe component on Distribution M&R Station. Emissions included in facility emission factors.
520001498622 1	92405	O	N/A	N/A	Less than or Equal to 60	1/1/2017	1/1/2017	1	N/A	N/A	Unknown component on Distribution M&R Station. Emissions included in facility emission factors.
520001498622 2	92405	O	N/A	N/A	Less than or Equal to 60	1/1/2017	1/1/2017	1	N/A	N/A	Unknown component on Distribution M&R Station. Emissions included in facility emission factors.
520001498623 1	92404	O	N/A	N/A	Less than or Equal to 60	1/1/2017	1/1/2017	1	N/A	N/A	Pipe component on Distribution M&R Station. Emissions included in facility emission factors.
520001498628 1	92399	O	N/A	N/A	Greater than 60	1/1/2017	1/1/2017	1	N/A	N/A	Pipe component on Distribution M&R Station. Emissions included in facility emission factors.
520001498631 1	91761	O	N/A	N/A	Less than or Equal to 60	1/1/2017	1/1/2017	1	N/A	N/A	Mechanical Joint component on Distribution M&R Station. Emissions included in facility emission factors.
520001498634 1	92880	O	N/A	N/A	Less than or Equal to 60	1/1/2017	1/1/2017	1	N/A	N/A	Pipe component on Distribution M&R Station. Emissions included in facility emission factors.
520001498637 1	92545	O	N/A	N/A	Less than or Equal to 60	1/1/2017	1/1/2017	1	N/A	N/A	Pipe component on Distribution M&R Station. Emissions included in facility emission factors.
520001498638 1	92545	O	N/A	N/A	Less than or Equal to 60	1/1/2017	1/1/2017	1	N/A	N/A	Pipe component on Distribution M&R Station. Emissions included in facility emission factors.
520001498639 1	92548	O	N/A	N/A	Less than or Equal to 60	1/1/2017	1/1/2017	1	N/A	N/A	Unknown component on Distribution M&R Station. Emissions included in facility emission factors.
520001498640 1	92555	O	N/A	N/A	Less than or Equal to 60	1/1/2017	1/1/2017	1	N/A	N/A	Pipe component on Distribution M&R Station. Emissions included in facility emission factors.
520001498641 1	92567	O	N/A	N/A	Greater than 60	1/1/2017	1/1/2017	1	N/A	N/A	Pipe component on Distribution M&R Station. Emissions included in facility emission factors.
520001498642 1	92567	O	N/A	N/A	Less than or Equal to 60	1/1/2017	1/1/2017	1	N/A	N/A	Pipe component on Distribution M&R Station. Emissions included in facility emission factors.
520001498644 1	92223	O	N/A	N/A	Less than or Equal to 60	1/1/2017	1/1/2017	1	N/A	N/A	Pipe component on Distribution M&R Station. Emissions included in facility emission factors.
520001498646 1	92252	O	N/A	N/A	Less than or Equal to 60	1/1/2017	1/1/2017	1	N/A	N/A	Unknown component on Distribution M&R Station. Emissions included in facility emission factors.
520001498646 2	92252	O	N/A	N/A	Less than or Equal to 60	1/1/2017	1/1/2017	1	N/A	N/A	Unknown component on Distribution M&R Station. Emissions included in facility emission factors.
520001498651 1	92240	O	N/A	N/A	Less than or Equal to 60	1/1/2017	1/1/2017	1	N/A	N/A	Unknown component on Distribution M&R Station. Emissions included in facility emission factors.
520001498651 2	92240	O	N/A	N/A	Less than or Equal to 60	1/1/2017	1/1/2017	1	N/A	N/A	Unknown component on Distribution M&R Station. Emissions included in facility emission factors.
520001498864 1	93314	O	N/A	N/A	Less than or Equal to 60	1/1/2017	1/1/2017	1	N/A	N/A	Pipe component on Distribution M&R Station. Emissions included in facility emission factors.
520001499265 1	93033	O	N/A	N/A	Less than or Equal to 60	1/1/2017	1/1/2017	1	N/A	N/A	Fitting Body or Seals component on Distribution M&R Station. Emissions included in facility emission factors.
520001499270 1	93040	O	N/A	N/A	Less than or Equal to 60	1/1/2017	1/1/2017	1	N/A	N/A	Mechanical Fitting component on Distribution M&R Station. Emissions included in facility emission factors.
520001499273 1	93015	O	N/A	N/A	Less than or Equal to 60	1/1/2017	1/1/2017	1	N/A	N/A	Unknown component on Distribution M&R Station. Emissions included in facility emission factors.
520001499273 2	93015	O	N/A	N/A	Less than or Equal to 60	1/1/2017	1/1/2017	1	N/A	N/A	Mechanical Fitting component on Distribution M&R Station. Emissions included in facility emission factors.
520001499279 1	93463	O	N/A	N/A	Less than or Equal to 60	1/1/2017	1/1/2017	1	N/A	N/A	Pipe component on Distribution M&R Station. Emissions included in facility emission factors.
520001498874 1	91208	O	N/A	N/A	Less than or Equal to 60	1/1/2017	1/1/2017	1	N/A	N/A	Unknown component on Distribution M&R Station. Emissions included in facility emission factors.
520001499788 1	92704	O	N/A	N/A	Less than or Equal to 60	1/3/2017	1/3/2017	3	N/A	N/A	Unknown component on Distribution M&R Station. Emissions included in facility emission factors.
520001499907 1	91304	O	N/A	N/A	Less than or Equal to 60	1/3/2017	1/3/2017	3	N/A	N/A	Mechanical Fitting component on Distribution M&R Station. Emissions included in facility emission factors.
520001499803 1	93534	O	N/A	N/A	Less than or Equal to 60	1/3/2017	1/3/2017	3	N/A	N/A	Mechanical Fitting component on Distribution M&R Station. Emissions included in facility emission factors.
520001504334 1	90022	O	N/A	N/A	Greater than 60	1/6/2017	1/6/2017	6	N/A	N/A	Unknown component on Distribution M&R Station. Emissions included in facility emission factors.
520001504711 1	92411	O	N/A	N/A	Less than or Equal to 60	1/9/2017	1/9/2017	9	N/A	N/A	Mechanical Fitting component on Distribution M&R Station. Emissions included in facility emission factors.
520001504743 1	92563	O	N/A	N/A	Less than or Equal to 60	1/9/2017	1/9/2017	9	N/A	N/A	Pipe component on Distribution M&R Station. Emissions included in facility emission factors.
520001504850 1	92583	O	N/A	N/A	Less than or Equal to 60	1/9/2017	1/9/2017	9	N/A	N/A	Pipe component on Distribution M&R Station. Emissions included in facility emission factors.
520001505298 1	91360	O	N/A	N/A	Less than or Equal to 60	1/10/2017	1/10/2017	10	N/A	N/A	Mechanical Fitting component on Distribution M&R Station. Emissions included in facility emission factors.
520001510567 1	90230	O	N/A	N/A	Less than or Equal to 60	1/12/2017	1/12/2017	12	N/A	N/A	Pipe component on Distribution M&R Station. Emissions included in facility emission factors.
520001510567 2	90230	O	N/A	N/A	Less than or Equal to 60	1/12/2017	1/12/2017	12	N/A	N/A	Unknown component on Distribution M&R Station. Emissions included in facility emission factors.
520001510567 3	90230	O	N/A	N/A	Less than or Equal to 60	1/12/2017	1/12/2017	12	N/A	N/A	Unknown component on Distribution M&R Station. Emissions included in facility emission factors.

ID	Geographic Location	Device Type	Bleed Rate	Manufacturer	Pressure (psi)	Discovery Date (MM/DD/YY)	Repair Date (MM/DD/YY)	Number of Days Leaking	Emission Factor (Mscf/day)	Annual Emissions (Mscf)	Explanatory Notes / Comments
520001716635 1	93012	O	N/A	N/A	Less than or Equal to 60	12/1/2017	12/1/2017	335	N/A	N/A	Mechanical Fitting component on Distribution M&R Station. Emissions included in facility emission factors.
520001716636 1	91360	O	N/A	N/A	Less than or Equal to 60	12/1/2017	12/1/2017	335	N/A	N/A	Mechanical Fitting component on Distribution M&R Station. Emissions included in facility emission factors.
520001716921 2	93001	O	N/A	N/A	Greater than 60	12/1/2017	12/1/2017	335	N/A	N/A	Fitting Body or Seals component on Distribution M&R Station. Emissions included in facility emission factors.
520001716931 1	92557	O	N/A	N/A	Less than or Equal to 60	12/1/2017	12/1/2017	335	N/A	N/A	Unknown component on Distribution M&R Station. Emissions included in facility emission factors.
520001716933 1	92563	O	N/A	N/A	Less than or Equal to 60	12/1/2017	12/1/2017	335	N/A	N/A	Unknown component on Distribution M&R Station. Emissions included in facility emission factors.
520001716990 1	93036	O	N/A	N/A	Greater than 60	12/1/2017	12/1/2017	335	N/A	N/A	Fitting Body or Seals component on Distribution M&R Station. Emissions included in facility emission factors.
520001718483 1	91436	O	N/A	N/A	Less than or Equal to 60	12/4/2017	12/4/2017	338	N/A	N/A	Mechanical Fitting component on Distribution M&R Station. Emissions included in facility emission factors.
520001718987 1	90044	O	N/A	N/A	Less than or Equal to 60	12/5/2017	12/5/2017	339	N/A	N/A	Mechanical Joint component on Distribution M&R Station. Emissions included in facility emission factors.
520001689458 2	93446	O	N/A	N/A	Less than or Equal to 60	12/9/2017	12/9/2017	343	N/A	N/A	Unknown component on Distribution M&R Station. Emissions included in facility emission factors.
520001689458 3	93446	O	N/A	N/A	Less than or Equal to 60	12/9/2017	12/9/2017	343	N/A	N/A	Unknown component on Distribution M&R Station. Emissions included in facility emission factors.
520001722662 1	93455	O	N/A	N/A	Less than or Equal to 60	12/11/2017	12/11/2017	345	N/A	N/A	Fitting Body or Seals component on Distribution M&R Station. Emissions included in facility emission factors.
520001722987 1	91356	O	N/A	N/A	Less than or Equal to 60	12/12/2017	12/12/2017	346	N/A	N/A	Mechanical Fitting component on Distribution M&R Station. Emissions included in facility emission factors.
520001723694 1	92585	O	N/A	N/A	Less than or Equal to 60	12/13/2017	12/13/2017	347	N/A	N/A	Mechanical Fitting component on Distribution M&R Station. Emissions included in facility emission factors.
520001730819 1	92260	O	N/A	N/A	Less than or Equal to 60	12/18/2017	12/18/2017	352	N/A	N/A	Pipe component on Distribution M&R Station. Emissions included in facility emission factors.
520001731243 1	93535	O	N/A	N/A	Greater than 60	12/18/2017	12/18/2017	352	N/A	N/A	Mechanical Fitting component on Distribution M&R Station. Emissions included in facility emission factors.
520001731508 1	93274	O	N/A	N/A	Less than or Equal to 60	12/19/2017	12/19/2017	353	N/A	N/A	Pipe component on Distribution M&R Station. Emissions included in facility emission factors.
520001731500 1	90045	O	N/A	N/A	Less than or Equal to 60	12/19/2017	12/19/2017	353	N/A	N/A	Unknown component on Distribution M&R Station. Emissions included in facility emission factors.
520001732011 1	93066	O	N/A	N/A	Less than or Equal to 60	12/19/2017	12/19/2017	353	N/A	N/A	Mechanical Fitting component on Distribution M&R Station. Emissions included in facility emission factors.
520001732992 1	93510	O	N/A	N/A	Greater than 60	12/21/2017	12/21/2017	355	N/A	N/A	Mechanical Fitting component on Distribution M&R Station. Emissions included in facility emission factors.
520001735063 1	92407	O	N/A	N/A	Less than or Equal to 60	12/27/2017	12/27/2017	361	N/A	N/A	Mechanical Fitting component on Distribution M&R Station. Emissions included in facility emission factors.
520001735102 1	90201	O	N/A	N/A	Less than or Equal to 60	12/27/2017	12/27/2017	361	N/A	N/A	Mechanical Joint component on Distribution M&R Station. Emissions included in facility emission factors.
520001735102 2	90201	O	N/A	N/A	Less than or Equal to 60	12/27/2017	12/27/2017	361	N/A	N/A	Unknown component on Distribution M&R Station. Emissions included in facility emission factors.
520001739092 1	90723	O	N/A	N/A	Less than or Equal to 60	12/27/2017	12/27/2017	361	N/A	N/A	Unknown component on Distribution M&R Station. Emissions included in facility emission factors.
520001731796 1	93060	O	N/A	N/A	Less than or Equal to 60	12/28/2017	12/28/2017	362	N/A	N/A	Unknown component on Distribution M&R Station. Emissions included in facility emission factors.
520001735466 1	92586	O	N/A	N/A	Less than or Equal to 60	12/28/2017	12/28/2017	362	N/A	N/A	Mechanical Fitting component on Distribution M&R Station. Emissions included in facility emission factors.
520001735693 1	92571	O	N/A	N/A	Greater than 60	12/28/2017	12/28/2017	362	N/A	N/A	Mechanical Fitting component on Distribution M&R Station. Emissions included in facility emission factors.
520001735901 1	91325	O	N/A	N/A	Less than or Equal to 60	12/28/2017	12/28/2017	362	N/A	N/A	Mechanical Fitting component on Distribution M&R Station. Emissions included in facility emission factors.
520001736313 1	93060	O	N/A	N/A	Less than or Equal to 60	12/29/2017	12/29/2017	363	N/A	N/A	Mechanical Fitting component on Distribution M&R Station. Emissions included in facility emission factors.
520001736365 1	93060	O	N/A	N/A	Less than or Equal to 60	12/29/2017	12/29/2017	363	N/A	N/A	Mechanical Fitting component on Distribution M&R Station. Emissions included in facility emission factors.
520001736440 1	92225	O	N/A	N/A	Greater than 60	12/29/2017	12/29/2017	363	N/A	N/A	Unknown component on Distribution M&R Station. Emissions included in facility emission factors.
520001736466 1	92236	O	N/A	N/A	Less than or Equal to 60	12/29/2017	12/29/2017	363	N/A	N/A	Unknown component on Distribution M&R Station. Emissions included in facility emission factors.
520001736496 1	92703	O	N/A	N/A	Less than or Equal to 60	12/29/2017	12/29/2017	363	N/A	N/A	Unknown component on Distribution M&R Station. Emissions included in facility emission factors.
520001736525 1	92236	O	N/A	N/A	Less than or Equal to 60	12/29/2017	12/29/2017	363	N/A	N/A	Unknown component on Distribution M&R Station. Emissions included in facility emission factors.
520001518244	92683	O	N/A	N/A	Greater than 60	1/27/2017	1/27/2017	27	N/A	N/A	Pipe component on Distribution M&R Station. Emissions included in facility emission factors.
520001676381	91352	O	N/A	N/A	Greater than 60	10/1/2017	10/1/2017	274	N/A	N/A	Unknown component on Distribution M&R Station. Emissions included in facility emission factors.
520001730818	92277	O	N/A	N/A	Greater than 60	12/18/2017	12/18/2017	352	N/A	N/A	Unknown component on Distribution M&R Station. Emissions included in facility emission factors.
Sum Total										0	

Appendix 5 - Rev. 03/31/18

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

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)	

Column Heading	Description and Definition of Required Contents (If not self-explanatory)
Pressure (psi)	MOP = maximum operating pressure over the past year
Leak Grade	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)	

Column Heading	Description and Definition of Required Contents (If not self-explanatory)
Explanatory Notes / Comments	Provide method of calculation and example of formula. Explain how any EF's used were derived.

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
DeviceType	C = connector OE = open-ended line M = meter P = pneumatic device PR = pressure relief valve V = valve O = other devices
Bleed Rate	L = low bleed I = intermittent bleed H = high bleed NA = not applicable
Manufacturer	
NumberofDays Emitting	Because the emissions are a factor of design or function, these emissions counted for the entire year.

Column Heading	Description and Definition of Required Contents (If not self-explanatory)
Engineering or Manufacturer's based Estimate of Emissions	
Annual Emissions(Mscf)	The emissions should be based on 365 days times the actual volume emitting if known, or the approved Emissions Factor. Note whether the emissions are based on actual volumetric measures in the next column.
Explanatory Notes / Comments	

Component Leaks	
ID	
Geographic Location	GIS, zip code, or equivalent
DeviceType	C = connector OE = open-ended line M = meter P = pneumatic device PR = pressure relief valve V = valve O = other devices
Bleed Rate	L = low bleed I = intermittent bleed H = high bleed NA = not applicable
Manufacturer	
Pressure(psi)	MOP = maximum operating pressure over the past year

Column Heading	Description and Definition of Required Contents (If not self-explanatory)
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)	<p>Date that the component repair stopped the leak. Any associated blowdowns as a result of the repair should be included in the blowdowns tab.</p>
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 <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	