

SoCalGas

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.

and In Response to Data Request SoCalGas R15-01-008 2017 June Report

Issued: March 31, 2017

Appendix 5

Rev. 3/31/17

Pursuant to SB 1371, Leno - Natural gas: leakage abatement, the California Public Utilities Commission (CPUC) requests that the following information be transmitted to the CPUC and the State Air Resources Board (ARB):

Note - Definitions in Data Request SoCalGas R15-01-008 2017 June Report

The following question in the above mentioned data request is answered using the spreadsheets in this Appendix (#5):

(6) Calculable or estimated emissions and non-graded gas leaks, as defined in Data Request SoCalGas R15-01-008 2017 June Report.

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.

Response:

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	
951	B2	1.84	1,750	
636	B3	12.176	7,744	
9	A1	40.6	365	
67	A2	896.5	60,066	
164	A3	1684.5	276,258	
		Sum Total	346,308	

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Response:

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	NA	0.0006	Abandoned Piping in MP Reg Stations	1	32	40
N/A	SoCalGas Territory	NA	0.0238	Abandoned Piping in MP Reg Stations	2	293	40
N/A	SoCalGas Territory	NA	0.0616	Abandoned Piping in MP Reg Stations	3	338	40
N/A	SoCalGas Territory	NA	0.0999	Abandoned Piping in MP Reg Stations	4	308	40
N/A	SoCalGas Territory	NA	0.0883	Abandoned Piping in MP Reg Stations	6	121	40
N/A	SoCalGas Territory	NA	0.0610	Abandoned Piping in MP Reg Stations	8	47	40
N/A	SoCalGas Territory	NA	0.0811	Abandoned Piping in MP Reg Stations	10	40	40
N/A	SoCalGas Territory	NA	0.2043	Abandoned Piping in MP Reg Stations	12	70	40
Disrict Reg. Insp	SoCalGas Territory	16,985	67.9400	External Regulator Inspections @ 4 scf/ea	NA	NA	NA
Disrict Reg. Insp	SoCalGas Territory	2,082	24.9840	Reg. chg. out & Internal Reg Insp @ 12 scf/ea	NA	NA	NA
Relief Valve Insp	SoCalGas Territory	147	2.9400	Annual test with Nitrogen. Only gas vented is volume of gas in valve @ 20 scf/ea.	NA	NA	NA
BTU District Mtr Orifice Plate Insp.	SoCalGas Territory	144	4.3200	Orifice Plate Inspected Monthly. Avg. gas vented = 30 scf/insp.	NA	NA	NA
Pneumatic Device Insp.	SoCalGas Territory	132	0.2640	Biannual Inspection of Pneumatic Devices with avg. gas vent = 2 scf/insp.	NA	NA	NA
Sum Total			101.068				

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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.

Response:

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
40	SoCalGas Territory	P	I	Becker	366	NA	NA	Intermittent Bleed Pneumatic Device emissions are included in Distribution M&R Above Grade Station emission factors.
2	SoCalGas Territory	P	H	Fisher	366	NA	NA	High Bleed Pneumatic Device emissions are included in Distribution M&R Above Grade Station emission factors.
26	SoCalGas Territory	P	I	Becker	366	NA	NA	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.

Response:

Sum Total 0

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
520001261311 1	91789	O	N/A	N/A	Less than or equal to 60	1/14/2016	1/14/2016	14	NA	NA	Pipe component on Distribution M&R Station. Emissions included in facility emission factors.
520001451827 1	92651	O	N/A	N/A	Less than or equal to 60	12/8/2016	12/8/2016	343	NA	NA	Pipe component on Distribution M&R Station. Emissions included in facility emission factors.
520001440400 1		O	N/A	N/A	Less than or equal to 60	10/25/2016	10/25/2016	299	NA	NA	Pipe component on Distribution M&R Station. Emissions included in facility emission factors.
520001428111 1	92553	O	N/A	N/A	Less than or equal to 60	11/16/2016	11/16/2016	321	NA	NA	Pipe component on Distribution M&R Station. Emissions included in facility emission factors.
520001428107 1	92582	O	N/A	N/A	Greater than 60	11/16/2016	11/16/2016	321	NA	NA	Pipe component on Distribution M&R Station. Emissions included in facility emission factors.
520001428104 1	92562	O	N/A	N/A	Less than or equal to 60	11/2/2016	11/2/2016	307	NA	NA	Pipe component on Distribution M&R Station. Emissions included in facility emission factors.
520001428101 1	92592	O	N/A	N/A	Less than or equal to 60	11/29/2016	11/29/2016	334	NA	NA	Pipe component on Distribution M&R Station. Emissions included in facility emission factors.
520001421720 1	93206	O	N/A	N/A	Less than or equal to 60	9/22/2016	9/22/2016	266	NA	NA	Pipe component on Distribution M&R Station. Emissions included in facility emission factors.
520001410901 1	93012	O	N/A	N/A	Less than or equal to 60	10/11/2016	10/11/2016	285	NA	NA	Pipe component on Distribution M&R Station. Emissions included in facility emission factors.
520001410899 2	93033	O	N/A	N/A	Greater than 60	12/1/2016	12/1/2016	336	NA	NA	Pipe component on Distribution M&R Station. Emissions included in facility emission factors.
520001410080 1	92220	O	N/A	N/A	Less than or equal to 60	10/6/2016	10/6/2016	280	NA	NA	Pipe component on Distribution M&R Station. Emissions included in facility emission factors.
520001410019 1	92223	O	N/A	N/A	Less than or equal to 60	10/7/2016	10/7/2016	281	NA	NA	Pipe component on Distribution M&R Station. Emissions included in facility emission factors.
520001410018 1	92320	O	N/A	N/A	Less than or equal to 60	10/14/2016	10/14/2016	288	NA	NA	Pipe component on Distribution M&R Station. Emissions included in facility emission factors.
520001410017 1	92570	O	N/A	N/A	Less than or equal to 60	10/4/2016	10/4/2016	278	NA	NA	Pipe component on Distribution M&R Station. Emissions included in facility emission factors.
520001410016 1	92570	O	N/A	N/A	Less than or equal to 60	10/10/2016	10/10/2016	284	NA	NA	Pipe component on Distribution M&R Station. Emissions included in facility emission factors.
520001410015 1	92586	O	N/A	N/A	Less than or equal to 60	10/12/2016	10/12/2016	286	NA	NA	Pipe component on Distribution M&R Station. Emissions included in facility emission factors.
520001410002 1	92320	O	N/A	N/A	Less than or equal to 60	10/4/2016	10/4/2016	278	NA	NA	Pipe component on Distribution M&R Station. Emissions included in facility emission factors.
520001392455 1	93001	O	N/A	N/A	Less than or equal to 60	12/15/2016	12/15/2016	350	NA	NA	Pipe component on Distribution M&R Station. Emissions included in facility emission factors.
520001392453 1	93003	O	N/A	N/A	Less than or equal to 60	11/16/2016	11/16/2016	321	NA	NA	Pipe component on Distribution M&R Station. Emissions included in facility emission factors.
520001392451 1	93012	O	N/A	N/A	Less than or equal to 60	10/11/2016	10/11/2016	285	NA	NA	Pipe component on Distribution M&R Station. Emissions included in facility emission factors.
520001392450 1	93010	O	N/A	N/A	Less than or equal to 60	11/17/2016	11/17/2016	322	NA	NA	Pipe component on Distribution M&R Station. Emissions included in facility emission factors.
520001392449 1	93010	O	N/A	N/A	Less than or equal to 60	11/16/2016	11/16/2016	321	NA	NA	Pipe component on Distribution M&R Station. Emissions included in facility emission factors.
520001392435 1		O	N/A	N/A	Less than or equal to 60	9/12/2016	9/12/2016	256	NA	NA	Pipe component on Distribution M&R Station. Emissions included in facility emission factors.
520001392434 1	93535	O	N/A	N/A	Less than or equal to 60	9/9/2016	9/9/2016	253	NA	NA	Pipe component on Distribution M&R Station. Emissions included in facility emission factors.
520001391785 1	92273	O	N/A	N/A	Less than or equal to 60	9/1/2016	9/1/2016	245	NA	NA	Pipe component on Distribution M&R Station. Emissions included in facility emission factors.
520001391728 1	92562	O	N/A	N/A	Less than or equal to 60	9/1/2016	9/1/2016	245	NA	NA	Pipe component on Distribution M&R Station. Emissions included in facility emission factors.
520001391727 1	92592	O	N/A	N/A	Less than or equal to 60	9/8/2016	9/8/2016	252	NA	NA	Pipe component on Distribution M&R Station. Emissions included in facility emission factors.
520001391654 1	91710	O	N/A	N/A	Less than or equal to 60	9/7/2016	9/7/2016	251	NA	NA	Pipe component on Distribution M&R Station. Emissions included in facility emission factors.
520001391651 1	91710	O	N/A	N/A	Less than or equal to 60	9/21/2016	9/21/2016	265	NA	NA	Pipe component on Distribution M&R Station. Emissions included in facility emission factors.
520001391649 1	92404	O	N/A	N/A	Less than or equal to 60	9/20/2016	9/20/2016	264	NA	NA	Pipe component on Distribution M&R Station. Emissions included in facility emission factors.
520001391648 3	92382	O	N/A	N/A	Less than or equal to 60	9/8/2016	9/8/2016	252	NA	NA	Pipe component on Distribution M&R Station. Emissions included in facility emission factors.
520001376833 1	92317	O	N/A	N/A	Less than or equal to 60	8/15/2016	8/15/2016	228	NA	NA	Pipe component on Distribution M&R Station. Emissions included in facility emission factors.
520001376777 1	93463	O	N/A	N/A	Less than or equal to 60	8/16/2016	8/16/2016	229	NA	NA	Pipe component on Distribution M&R Station. Emissions included in facility emission factors.
520001376772 1	93003	O	N/A	N/A	Less than or equal to 60	8/15/2016	8/15/2016	228	NA	NA	Pipe component on Distribution M&R Station. Emissions included in facility emission factors.
520001376766 1	93004	O	N/A	N/A	Less than or equal to 60	8/18/2016	8/18/2016	231	NA	NA	Pipe component on Distribution M&R Station. Emissions included in facility emission factors.
520001376765 1	93060	O	N/A	N/A	Less than or equal to 60	8/22/2016	8/22/2016	235	NA	NA	Pipe component on Distribution M&R Station. Emissions included in facility emission factors.

