

SDG&E

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 SDG&E 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 SDG&E 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 SDG&E 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
8	B1	0.964	8	
65	B2	1.84	120	
357	B3	12.176	4,347	
2	A1	40.6	81	
12	A2	896.5	10,758	
38	A3	1684.5	64,011	

Sum Total **79,324**

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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

Response:

Distribution M&R Station Blowdowns:

ID	Geographic Location	Number of Blowdown Events	Annual Emissions (Mscf)	Explanatory Notes / Comments
Disrict Reg. Insp	SDGE Territory	2,013	8.05	External Regulator Inspections @ 4 scf/ea
Disrict Reg. Insp	SDGE Territory	183	2.20	Reg. chg. out & Internal Reg Insp @ 12 scf/ea
Relief Valve Insp.	SDGE Territory	202	4.04	Annual test with Nitrogen. Only gas vented is volume of gas in valve @ 20 scf/ea.
BTU District Mtr Orifice Plate Insp	SDGE Territory	12	0.06	Orifice Plate Inspected Monthly. Avg. gas vented = 5 scf/insp.
NA	SDGE Territory	430	7.16	M&R Station Inspection Blowdown.
		Sum Total	21.51	

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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 SDG&E R15-01-008 2017 June Report.

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 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 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	Geographic Location	Device Type	Bleed Rate	Manufacturer	Number of Days Emitting	Engineering or Manufacturer's based Estimate of Emissions	Annual Emissions (Mscf)	Explanatory Notes / Comments
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Note: No devices

Sum Total 0

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Note - Definitions in Data Request SDG&E 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 SDG&E R15-01-008 2017 June Report.

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
510000476449 1	92014	O	NA	NA	Less than or equal to 60	11/30/2016	11/30/2016	335	NA	NA	Pipe component on Distribution M&R Station. Emissions included in facility emission factors.
510000442374 1	92069	O	NA	NA	Less than or equal to 60	4/13/2016	4/13/2016	104	NA	NA	Pipe component on Distribution M&R Station. Emissions included in facility emission factors.
1PCV201		C	NA	NA	NA	9/22/2016	9/22/2016	266	NA	NA	Valve component on Distribution M&R Station. Emissions included in facility emission factors.
602B.01	91941	C	NA	NA	NA	9/22/2016	9/22/2016	266	NA	NA	Valve component on Distribution M&R Station. Emissions included in facility emission factors.
6005.01	91941	C	NA	NA	NA	9/22/2016	9/22/2016	266	NA	NA	Valve component on Distribution M&R Station. Emissions included in facility emission factors.
6004.01	91941	C	NA	NA	NA	9/22/2016	9/22/2016	266	NA	NA	Valve component on Distribution M&R Station. Emissions included in facility emission factors.
6002.01	91941	C	NA	NA	NA	9/22/2016	9/22/2016	266	NA	NA	Valve component on Distribution M&R Station. Emissions included in facility emission factors.
510000425188 1	91941	O	NA	NA	Less than or equal to 60	1/8/2016	1/8/2016	8	NA	NA	Fitting Body or Seals component on Distribution M&R Station. Emissions included in facility emission factors.
510000457065 1	92083	O	NA	NA	Less than or equal to 60	6/9/2016	6/9/2016	161	NA	NA	Fitting Body or Seals component on Distribution M&R Station. Emissions included in facility emission factors.
510000458048 1	92040	O	NA	NA	Less than or equal to 60	6/28/2016	6/28/2016	180	NA	NA	Mechanical Joint component on Distribution M&R Station. Emissions included in facility emission factors.
510000458048 2		O	NA	NA	Less than or equal to 60	6/28/2016	6/28/2016	180	NA	NA	Regulator component on Distribution M&R Station. Emissions included in facility emission factors.
510000461274 1	92071	O	NA	NA	Greater than 60	9/12/2016	9/12/2016	256	NA	NA	Terminal Gauge component on Distribution M&R Station. Emissions included in facility emission factors.
510000463307 1	92054	O	NA	NA	Less than or equal to 60	9/30/2016	9/30/2016	274	NA	NA	Fitting Body or Seals component on Distribution M&R Station. Emissions included in facility emission factors.
510000463320 1	92008	V	NA	NA	Greater than 60	9/20/2016	9/20/2016	264	NA	NA	Valve component on Distribution M&R Station. Emissions included in facility emission factors.
510000470595 1	92084	O	NA	NA	Less than or equal to 60	9/15/2016	9/15/2016	259	NA	NA	Fitting Body or Seals component on Distribution M&R Station. Emissions included in facility emission factors.
510000471536 1	92054	O	NA	NA	Less than or equal to 60	11/18/2016	11/18/2016	323	NA	NA	Regulator component on Distribution M&R Station. Emissions included in facility emission factors.
510000473764 1	92108	O	NA	NA	Greater than 60	10/24/2016	10/24/2016	298	NA	NA	Fitting Body or Seals component on Distribution M&R Station. Emissions included in facility emission factors.
510000485467 1	92128	O	NA	NA	Less than or equal to 60	12/2/2016	12/2/2016	337	NA	NA	Mechanical Joint component on Distribution M&R Station. Emissions included in facility emission factors.
510000485467 2	92128	V	NA	NA	Less than or equal to 60	12/2/2016	12/2/2016	337	NA	NA	Valve component on Distribution M&R Station. Emissions included in facility emission factors.
510000485467 3	92128	V	NA	NA	Less than or equal to 60	12/2/2016	12/2/2016	337	NA	NA	Valve component on Distribution M&R Station. Emissions included in facility emission factors.
510000485467 4	92128	V	NA	NA	Less than or equal to 60	12/2/2016	12/2/2016	337	NA	NA	Valve component on Distribution M&R Station. Emissions included in facility emission factors.
510000485467 5	92128	V	NA	NA	Less than or equal to 60	12/2/2016	12/2/2016	337	NA	NA	Valve component on Distribution M&R Station. Emissions included in facility emission factors.
510000486546 1	92025	O	NA	NA	Greater than 60	12/6/2016	12/6/2016	341	NA	NA	Fitting Body or Seals component on Distribution M&R Station. Emissions included in facility emission factors.
510000489272 1	92020	O	NA	NA	Less than or equal to 60	12/8/2016	12/8/2016	343	NA	NA	Mechanical Fitting component on Distribution M&R Station. Emissions included in facility emission factors.
510000489683 1	92129	O	NA	NA	Less than or equal to 60	12/15/2016	12/15/2016	350	NA	NA	Fitting Body or Seals component on Distribution M&R Station. Emissions included in facility emission factors.
510000490481 1	92121	O	NA	NA	Greater than 60	12/21/2016	12/21/2016	356	NA	NA	Fitting Body or Seals component on Distribution M&R Station. Emissions included in facility emission factors.