

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
3/31/2017
Appendix 3

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 (#3):
(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.
The emissions captured on this tab represent the emissions associated unintentional leaks that if repaired would not leaking. If the Compressor is releasing gas or "bleeding" as a result of its design or function then it is not to be captured in this tab.
Response:

Transmission Compressor Fugitive Leaks:

ID	Geographic Location	Compressor Type	Prime Mover	Number of Cylinders	Number of Seals	Seal Type	Operating Mode: Pressurized Operating (hours)	Operating Mode: Pressurized Idle (hours)	Operating Mode: Depressurized Idle (hours)	Emission Factor: Pressurized Operating(scf/hr)	Emission Factor: Pressurized Idle (scf/hr)	Emission Factor: Depressurized Idle (scf/hr)	Discovery Date (MM/DD/YY)	Repair Date (MM/DD/YY)	Number of Days Leaking	Annual Emissions (Mscf)	Explanatory Notes / Comments
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Notes: Leaks on compressor piping are reported as "component leaks".

Sum Total0

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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.

Response:

Transmission Compressor Station Blowdowns:

ID	Geographic Location	Number of Blowdown Events	Annual Emissions (Mscf)	Explanatory Notes / Comments
Unit 11, 14 & 15	92225	7	123.50	Blowdown for Compressor Repair
N/A	92225	69	1,741.74	Blowdown for Maintenance
N/A	92363	18	772.25	Blowdown for Maintenance
N/A	93001	2	10.85	Blowdown for Maintenance
N/A				Blowdown for Safety due to Fire panels
	92363	1	119.27	disabled.
Unit 1 & 2	92363	2	283.00	Relief Valve Inspection
Unit 10, 12 & 14	92225	12	190.08	Compressor Leak Checking
N/A	92365	2	102.00	Compressor Start
N/A	92365	7	151.38	Scrubber Maintenance
ESD	92225	4*	77.96	Station ESD
ESD	92363	1*	309.12	Station ESD
ESD	93313	1*	1,385.00	Station ESD (along with annual ESD)
ESD	93313	1*	1,763.00	Station ESD (quarterly)
N/A	93001	8*	48.83	Unit Venting to atmosphere
ESD	93313	2*	4,457.00	Unit Venting to atmosphere
Unit 9	92225	1	17.36	Valve Replacement

Sum Total **11,552.34**

*Note: These line items may include summarized data of multiple blowdown events. Individual event data is not available.

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The following question in the above mentioned data request is answered using the spreadsheets in this Appendix (#3):

(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. **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 Response:**

Transmission Compressor Station Component Vented Emissions:

ID/Number of Devices	Geographic Location	Device Type	Bleed Rate	Manufacturer	Engineering or Manufacturer's based Estimate of Emissions (Mscf/day/dev)	Annual Emissions (Mscf)	Explanatory Notes / Comments
18	92301	P	I	Misc.	0.0576	379.47	
2	92301	P	L	Misc.	0.0336	24.60	
21	92225	P	I	Misc.	0.0576	442.71	
21	92239	P	I	Misc.	0.0576	442.71	
12	92274	P	I	Misc.	0.0576	252.98	
7	92351	P	I	Misc.	0.0576	147.57	
4	92365	P	I	Misc.	0.0576	84.33	
105	92365	P	I	Misc.	0.0576	2,213.57	
19	92363	P	I	Misc.	0.0576	400.55	
3	92363	P	L	Misc.	0.0336	36.89	
2	92363	P	I	Misc.	0.0576	42.16	
6	92363	P	I	Misc.	0.0576	126.49	
21	92363	P	I	Misc.	0.0576	442.71	
2	92363	P	I	Misc.	0.0576	42.16	

Sum Total **5,078.91**

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

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

Transmission Compressor Station Component Fugitive Leaks:

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/dev)	Annual Emissions (Mscf)	Explanatory Notes / Comments
compressor #1 - Connector	93001	C	N/A	N/A	11/9/2016	N/A	366	0.1342	49.103	GHG Subpart W data - Table 3 for Compressor Component - 5.59 scfh
compressor #1 - Connector	92363	C	N/A	N/A	11/9/2016	N/A	366	0.1342	49.103	GHG Subpart W data - Table 3 for Compressor Component - 5.59 scfh
compressor #1 - Connector	92363	C	N/A	N/A	11/9/2016	N/A	366	0.1342	49.103	GHG Subpart W data - Table 3 for Compressor Component - 5.59 scfh
compressor #1 - Connector	92363	C	N/A	N/A	11/9/2016	N/A	366	0.1342	49.103	GHG Subpart W data - Table 3 for Compressor Component - 5.59 scfh
compressor #1 - Connector	92363	C	N/A	N/A	11/9/2016	N/A	366	0.1342	49.103	GHG Subpart W data - Table 3 for Compressor Component - 5.59 scfh
compressor #1 - Connector	92365	C	N/A	N/A	12/2/2016	N/A	366	0.1342	49.103	GHG Subpart W data - Table 3 for Compressor Component - 5.59 scfh
compressor #1 - Connector	92365	C	N/A	N/A	12/2/2016	N/A	366	0.1342	49.103	GHG Subpart W data - Table 3 for Compressor Component - 5.59 scfh
compressor #1 - Connector	92365	C	N/A	N/A	12/2/2016	N/A	366	0.1342	49.103	GHG Subpart W data - Table 3 for Compressor Component - 5.59 scfh
compressor #10 - Connector	92225	C	N/A	N/A	12/5/2016	N/A	366	0.1342	49.103	GHG Subpart W data - Table 3 for Compressor Component - 5.59 scfh
compressor #10 - Connector	92225	C	N/A	N/A	12/5/2016	N/A	366	0.1342	49.103	GHG Subpart W data - Table 3 for Compressor Component - 5.59 scfh
compressor #10 - Connector	92225	C	N/A	N/A	12/5/2016	N/A	366	0.1342	49.103	GHG Subpart W data - Table 3 for Compressor Component - 5.59 scfh
compressor #10 - Connector	92225	C	N/A	N/A	12/5/2016	N/A	366	0.1342	49.103	GHG Subpart W data - Table 3 for Compressor Component - 5.59 scfh
compressor #11 - Connector	92225	C	N/A	N/A	12/5/2016	N/A	366	0.1342	49.103	GHG Subpart W data - Table 3 for Compressor Component - 5.59 scfh
compressor #11 - Connector	92225	C	N/A	N/A	12/5/2016	N/A	366	0.1342	49.103	GHG Subpart W data - Table 3 for Compressor Component - 5.59 scfh
compressor #11 - Connector	92225	C	N/A	N/A	12/5/2016	N/A	366	0.1342	49.103	GHG Subpart W data - Table 3 for Compressor Component - 5.59 scfh

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[illegible]

compressor #2 - Connector	92363	C	N/A	N/A	11/9/2016	N/A	366	0.1342	49.103	GHG Subpart W data - Table 3 for Compressor Component - 5.59 scfh
compressor #2 - Connector	92363	C	N/A	N/A	11/9/2016	N/A	366	0.1342	49.103	GHG Subpart W data - Table 3 for Compressor Component - 5.59 scfh
compressor #2 - Connector	92365	C	N/A	N/A	12/2/2016	N/A	366	0.1342	49.103	GHG Subpart W data - Table 3 for Compressor Component - 5.59 scfh
compressor #11 - Valve	92225	V	N/A	N/A	12/5/2016	N/A	366	0.3562	130.355	GHG Subpart W data - Table 3 for Compressor Component - 14.84 scfh
compressor #12 - Valve	92225	V	N/A	N/A	12/5/2016	N/A	366	0.3562	130.355	GHG Subpart W data - Table 3 for Compressor Component - 14.84 scfh
compressor #3 - Connector	93001	C	N/A	N/A	11/28/2016	N/A	366	0.1342	49.103	GHG Subpart W data - Table 3 for Compressor Component - 5.59 scfh
compressor #3 - Connector	92363	C	N/A	N/A	11/9/2016	N/A	366	0.1342	49.103	GHG Subpart W data - Table 3 for Compressor Component - 5.59 scfh
non-compressor, 8" ball valve	93313	V	N/A	N/A	11/30/2016	N/A	366	0.1572	57.535	Appendix 9 EF.
compressor #3 - Connector	92363	C	N/A	N/A	11/9/2016	N/A	366	0.1342	49.103	GHG Subpart W data - Table 3 for Compressor Component - 5.59 scfh
compressor #3 - Connector	92363	C	N/A	N/A	11/9/2016	N/A	366	0.1342	49.103	GHG Subpart W data - Table 3 for Compressor Component - 5.59 scfh
non-compressor, 8" ball valve	93313	V	N/A	N/A	11/30/2016	N/A	366	0.1572	57.535	Appendix 9 EF.
non-compressor, 1" plug valve	93313	V	N/A	N/A	11/30/2016	N/A	366	0.1572	57.535	Appendix 9 EF.
compressor #3 - Connector	92363	C	N/A	N/A	11/9/2016	N/A	366	0.1342	49.103	GHG Subpart W data - Table 3 for Compressor Component - 5.59 scfh
compressor #3 - Connector	92363	C	N/A	N/A	11/9/2016	N/A	366	0.1342	49.103	GHG Subpart W data - Table 3 for Compressor Component - 5.59 scfh
non-compressor, 1 " ball valve	93313	V	N/A	N/A	11/30/2016	N/A	366	0.1572	57.535	Appendix 9 EF.
non-compressor, 1 " ball valve	93313	V	N/A	N/A	11/30/2016	N/A	366	0.1572	57.535	Appendix 9 EF.
non-compressor, 1 " ball valve	93313	V	N/A	N/A	11/30/2016	N/A	366	0.1572	57.535	Appendix 9 EF.
compressor #3 - Connector	92365	C	N/A	N/A	12/2/2016	N/A	366	0.1342	49.103	GHG Subpart W data - Table 3 for Compressor Component - 5.59 scfh
non-compressor, 6" ball valve	93313	V	N/A	N/A	11/30/2016	N/A	366	0.1572	57.535	Appendix 9 EF.
non-compressor, 8" plug valve	93313	V	N/A	N/A	11/30/2016	N/A	366	0.1572	57.535	Appendix 9 EF.
non-compressor, 8" plug valve	93313	V	N/A	N/A	11/30/2016	N/A	366	0.1572	57.535	Appendix 9 EF.
non-compressor, 1" ball valve	93313	V	N/A	N/A	11/30/2016	N/A	366	0.1572	57.535	Appendix 9 EF.
non-compressor, 8" plug valve	93313	V	N/A	N/A	11/30/2016	N/A	366	0.1572	57.535	Appendix 9 EF.
non-compressor, 8" plug valve	93313	V	N/A	N/A	11/30/2016	N/A	366	0.1572	57.535	Appendix 9 EF.
non-compressor, 8" plug valve	93313	V	N/A	N/A	11/30/2016	N/A	366	0.1572	57.535	Appendix 9 EF.
non-compressor, 8" plug valve	93313	V	N/A	N/A	11/30/2016	N/A	366	0.1572	57.535	Appendix 9 EF.
non-compressor, 8" plug valve	93313	V	N/A	N/A	11/30/2016	N/A	366	0.1572	57.535	Appendix 9 EF.
non-compressor, 8" plug valve	93313	V	N/A	N/A	11/30/2016	N/A	366	0.1572	57.535	Appendix 9 EF.
non-compressor, 30" ball valve	93313	V	N/A	N/A	11/30/2016	N/A	366	0.1572	57.535	Appendix 9 EF.
compressor #4 - Connector	92365	C	N/A	N/A	12/2/2016	N/A	366	0.1342	49.103	GHG Subpart W data - Table 3 for Compressor Component - 5.59 scfh
non-compressor, 1" PRV	93313	PR	N/A	N/A	11/30/2016	N/A	366	0.0492	18.007	Appendix 9 EF.
non-compressor, 30" ball valve	93313	V	N/A	N/A	11/30/2016	N/A	366	0.1572	57.535	Appendix 9 EF.
compressor #5 - Connector	92363	C	N/A	N/A	11/7/2016	11/7/2016	312	0.1342	41.858	GHG Subpart W data - Table 3 for Compressor Component - 5.59 scfh
non-compressor, 30" ball valve	93313	V	N/A	N/A	11/30/2016	N/A	366	0.1572	57.535	Appendix 9 EF.
non-compressor, 30" ball valve	93313	V	N/A	N/A	11/30/2016	N/A	366	0.1572	57.535	Appendix 9 EF.
non-compressor, 30" ball valve	93313	V	N/A	N/A	11/30/2016	N/A	366	0.1572	57.535	Appendix 9 EF.

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non-compressor, 2" ball valve	92225	V	N/A	N/A	12/5/2016	N/A	366	0.1572	57.535	Appendix 9 EF.
non-compressor, 30" ball valve	92225	V	N/A	N/A	12/5/2016	N/A	366	0.1572	57.535	Appendix 9 EF.
non-compressor, 1" cap	92225	C	N/A	N/A	12/6/2016	12/6/2016	341	0.1399	47.706	Appendix 9 EF.
non-compressor, 1" cap	93001	C	N/A	N/A	11/28/2016	N/A	366	0.1399	51.203	Appendix 9 EF.
non-compressor, 1" coupling	92363	C	N/A	N/A	11/7/2016	N/A	366	0.1399	51.203	Appendix 9 EF.
non-compressor, 1" elbow	92225	C	N/A	N/A	12/5/2016	N/A	366	0.1399	51.203	Appendix 9 EF.
non-compressor, 1/2" ball valve	92225	V	N/A	N/A	12/5/2016	N/A	366	0.1572	57.535	Appendix 9 EF.
non-compressor, 1" elbow	92225	C	N/A	N/A	12/7/2016	N/A	366	0.1399	51.203	Appendix 9 EF.
non-compressor, 2" plug valve	92225	V	N/A	N/A	12/5/2016	N/A	366	0.1572	57.535	Appendix 9 EF.
non-compressor, 1" elbow	92225	C	N/A	N/A	12/7/2016	N/A	366	0.1399	51.203	Appendix 9 EF.
non-compressor, 1" elbow	93001	C	N/A	N/A	11/28/2016	N/A	366	0.1399	51.203	Appendix 9 EF.
non-compressor, 2" plug valve	92225	V	N/A	N/A	12/5/2016	N/A	366	0.1572	57.535	Appendix 9 EF.
non-compressor, 1" elbow	92363	C	N/A	N/A	11/8/2016	N/A	366	0.1399	51.203	Appendix 9 EF.
non-compressor, 1" elbow	92301	C	N/A	N/A	12/2/2016	N/A	366	0.1399	51.203	Appendix 9 EF.
non-compressor, 1" flange	92225	C	N/A	N/A	12/5/2016	N/A	366	0.1399	51.203	Appendix 9 EF.
non-compressor, 1" flange	92225	C	N/A	N/A	12/5/2016	N/A	366	0.1399	51.203	Appendix 9 EF.
non-compressor, 1" check valve	92225	V	N/A	N/A	12/6/2016	N/A	366	0.1572	57.535	Appendix 9 EF.
non-compressor, 1" flange	92225	C	N/A	N/A	12/7/2016	N/A	366	0.1399	51.203	Appendix 9 EF.
non-compressor, 1" flange	92365	C	N/A	N/A	11/9/2016	N/A	366	0.1399	51.203	Appendix 9 EF.
non-compressor, 1" flange	92301	C	N/A	N/A	12/2/2016	N/A	366	0.1399	51.203	Appendix 9 EF.
non-compressor, 1/2" control valve	92225	V	N/A	N/A	12/6/2016	N/A	366	0.1572	57.535	Appendix 9 EF.
non-compressor, 1" nipple	93313	C	N/A	N/A	11/30/2016	N/A	366	0.1399	51.203	Appendix 9 EF.
non-compressor, 1" nipple	93313	C	N/A	N/A	11/30/2016	N/A	366	0.1399	51.203	Appendix 9 EF.
non-compressor, 1" nipple	92225	C	N/A	N/A	12/5/2016	N/A	366	0.1399	51.203	Appendix 9 EF.
non-compressor, 1" nipple	92225	C	N/A	N/A	12/5/2016	N/A	366	0.1399	51.203	Appendix 9 EF.
non-compressor, 1" nipple	92225	C	N/A	N/A	12/6/2016	N/A	366	0.1399	51.203	Appendix 9 EF.
non-compressor, 10" ball valve	92225	V	N/A	N/A	12/6/2016	N/A	366	0.1572	57.535	Appendix 9 EF.
non-compressor, 10" ball valve	92225	V	N/A	N/A	12/6/2016	N/A	366	0.1572	57.535	Appendix 9 EF.
non-compressor, 24" ball valve	92225	V	N/A	N/A	12/6/2016	N/A	366	0.1572	57.535	Appendix 9 EF.
non-compressor, 1" nipple	92225	C	N/A	N/A	12/7/2016	N/A	366	0.1399	51.203	Appendix 9 EF.
non-compressor, 18" valve	92225	V	N/A	N/A	12/6/2016	N/A	366	0.1572	57.535	Appendix 9 EF.
non-compressor, 18" valve	92225	V	N/A	N/A	12/6/2016	N/A	366	0.1572	57.535	Appendix 9 EF.
non-compressor, 1" nipple	92365	C	N/A	N/A	11/9/2016	N/A	366	0.1399	51.203	Appendix 9 EF.
non-compressor, 1" nipple	92363	C	N/A	N/A	11/8/2016	N/A	366	0.1399	51.203	Appendix 9 EF.
non-compressor, 1" nipple	92363	C	N/A	N/A	11/8/2016	N/A	366	0.1399	51.203	Appendix 9 EF.
non-compressor, 1" plug	93313	C	N/A	N/A	11/30/2016	N/A	366	0.1399	51.203	Appendix 9 EF.
non-compressor, 1" needle valve	92225	V	N/A	N/A	12/6/2016	N/A	366	0.1572	57.535	Appendix 9 EF.
non-compressor, 4" plug valve	92225	V	N/A	N/A	12/6/2016	N/A	366	0.1572	57.535	Appendix 9 EF.
non-compressor, 2" ball valve	92225	V	N/A	N/A	12/6/2016	N/A	366	0.1572	57.535	Appendix 9 EF.

non-compressor, 3/4" valve	92225	V	N/A	N/A	12/7/2016	N/A	366	0.1572	57.535	Appendix 9 EF.
non-compressor, 1" plug	92365	C	N/A	N/A	11/9/2016	11/9/2016	314	0.1399	43.929	Appendix 9 EF.
non-compressor, 1" plug	92363	C	N/A	N/A	11/8/2016	11/9/2016	314	0.1399	43.929	Appendix 9 EF.
non-compressor, 8" ball valve	92225	V	N/A	N/A	12/7/2016	N/A	366	0.1572	57.535	Appendix 9 EF.
non-compressor, 2" ball valve	92225	V	N/A	N/A	12/7/2016	N/A	366	0.1572	57.535	Appendix 9 EF.
non-compressor, 6" valve	92225	V	N/A	N/A	12/7/2016	N/A	366	0.1572	57.535	Appendix 9 EF.
non-compressor, 1" plug	92363	C	N/A	N/A	11/8/2016	N/A	366	0.1399	51.203	Appendix 9 EF.
non-compressor, 1" plug	92365	C	N/A	N/A	11/10/2016	N/A	366	0.1399	51.203	Appendix 9 EF.
non-compressor, 1" plug	92301	C	N/A	N/A	12/2/2016	12/2/2016	337	0.1399	47.146	Appendix 9 EF.
compressor #3 - Valve	93001	V	N/A	N/A	11/28/2016	N/A	366	0.1572	57.535	Appendix 9 EF.
compressor #3 - Valve	93001	V	N/A	N/A	11/28/2016	N/A	366	0.1572	57.535	Appendix 9 EF.
non-compressor, 3" ball valve	93001	V	N/A	N/A	11/28/2016	N/A	366	0.1572	57.535	Appendix 9 EF.
non-compressor, 12" valve	93001	V	N/A	N/A	11/28/2016	N/A	366	0.1572	57.535	Appendix 9 EF.
non-compressor, 1" plug	92301	C	N/A	N/A	12/2/2016	12/2/2016	337	0.1399	47.146	Appendix 9 EF.
non-compressor, 6" plug valve	93001	V	N/A	N/A	11/28/2016	N/A	366	0.1572	57.535	Appendix 9 EF.
non-compressor, 6" plug valve	93001	V	N/A	N/A	11/28/2016	N/A	366	0.1572	57.535	Appendix 9 EF.
non-compressor, 8" plug valve	93001	V	N/A	N/A	11/28/2016	N/A	366	0.1572	57.535	Appendix 9 EF.
non-compressor, 1" plug valve	93001	V	N/A	N/A	11/28/2016	N/A	366	0.1572	57.535	Appendix 9 EF.
non-compressor, 1" plug	92301	C	N/A	N/A	12/2/2016	12/2/2016	337	0.1399	47.146	Appendix 9 EF.
non-compressor, 1" plug	92301	C	N/A	N/A	12/2/2016	N/A	366	0.1399	51.203	Appendix 9 EF.
non-compressor, 6" valve	93001	V	N/A	N/A	11/28/2016	N/A	366	0.1572	57.535	Appendix 9 EF.
non-compressor, 1" reducer	92225	C	N/A	N/A	12/6/2016	N/A	366	0.1399	51.203	Appendix 9 EF.
non-compressor, 16" valve	93001	V	N/A	N/A	11/28/2016	N/A	366	0.1572	57.535	Appendix 9 EF.
non-compressor, 1" reducer	92365	C	N/A	N/A	11/9/2016	N/A	366	0.1399	51.203	Appendix 9 EF.
non-compressor, 1" reducer	92301	C	N/A	N/A	12/2/2016	N/A	366	0.1399	51.203	Appendix 9 EF.
non-compressor, 8" valve	93001	V	N/A	N/A	11/28/2016	N/A	366	0.1572	57.535	Appendix 9 EF.
non-compressor, 12" valve	93001	V	N/A	N/A	11/28/2016	N/A	366	0.1572	57.535	Appendix 9 EF.
non-compressor, 12" valve	93001	V	N/A	N/A	11/28/2016	N/A	366	0.1572	57.535	Appendix 9 EF.
non-compressor, 12" valve	93001	V	N/A	N/A	11/28/2016	N/A	366	0.1572	57.535	Appendix 9 EF.
non-compressor, 2" plug valve	93001	V	N/A	N/A	11/28/2016	N/A	366	0.1572	57.535	Appendix 9 EF.
non-compressor, 1" reducer	92301	C	N/A	N/A	12/2/2016	N/A	366	0.1399	51.203	Appendix 9 EF.
non-compressor, 2" plug valve	93001	V	N/A	N/A	11/28/2016	N/A	366	0.1572	57.535	Appendix 9 EF.
non-compressor, 1" tee	92225	C	N/A	N/A	12/5/2016	N/A	366	0.1399	51.203	Appendix 9 EF.
non-compressor, 1" thread	93313	C	N/A	N/A	11/30/2016	N/A	366	0.1399	51.203	Appendix 9 EF.
non-compressor, 1" thread	92363	C	N/A	N/A	11/7/2016	N/A	366	0.1399	51.203	Appendix 9 EF.
non-compressor, 1" thread	92225	C	N/A	N/A	12/6/2016	N/A	366	0.1399	51.203	Appendix 9 EF.
non-compressor, 1" thread	92225	C	N/A	N/A	12/7/2016	N/A	366	0.1399	51.203	Appendix 9 EF.
non-compressor, 1" thread	93001	C	N/A	N/A	11/28/2016	N/A	366	0.1399	51.203	Appendix 9 EF.
non-compressor, 1" union	92225	C	N/A	N/A	12/5/2016	N/A	366	0.1399	51.203	Appendix 9 EF.
non-compressor, 1" union	92225	C	N/A	N/A	12/5/2016	N/A	366	0.1399	51.203	Appendix 9 EF.
non-compressor, 1" union	92225	C	N/A	N/A	12/6/2016	N/A	366	0.1399	51.203	Appendix 9 EF.
non-compressor, 1" union	92225	C	N/A	N/A	12/7/2016	N/A	366	0.1399	51.203	Appendix 9 EF.
non-compressor, 1" union	92225	C	N/A	N/A	12/7/2016	N/A	366	0.1399	51.203	Appendix 9 EF.
non-compressor, 1" union	93001	C	N/A	N/A	11/28/2016	N/A	366	0.1399	51.203	Appendix 9 EF.
non-compressor, 1" union	92363	C	N/A	N/A	11/8/2016	N/A	366	0.1399	51.203	Appendix 9 EF.
non-compressor, 2" ball valve	92365	V	N/A	N/A	11/9/2016	11/9/2016	314	0.1572	49.361	Appendix 9 EF.
non-compressor, 2" ball valve	92365	V	N/A	N/A	11/9/2016	11/9/2016	314	0.1572	49.361	Appendix 9 EF.
non-compressor, 1" union	92365	C	N/A	N/A	11/10/2016	N/A	366	0.1399	51.203	Appendix 9 EF.
non-compressor, 1" union	92365	C	N/A	N/A	11/10/2016	N/A	366	0.1399	51.203	Appendix 9 EF.
non-compressor, 1.5" flange	92365	C	N/A	N/A	11/10/2016	N/A	366	0.1399	51.203	Appendix 9 EF.
non-compressor, 1.5" thread	92225	C	N/A	N/A	12/5/2016	N/A	366	0.1399	51.203	Appendix 9 EF.
non-compressor, 1.5" thread	92225	C	N/A	N/A	12/6/2016	N/A	366	0.1399	51.203	Appendix 9 EF.

non-compressor, 1.5" union	92225	C	N/A	N/A	12/6/2016	N/A	366	0.1399	51.203	Appendix 9 EF.
non-compressor, 1/2" cap	92225	C	N/A	N/A	12/5/2016	12/5/2016	340	0.1399	47.566	Appendix 9 EF.
non-compressor, 1/2" elbow	92225	C	N/A	N/A	12/5/2016	12/5/2016	340	0.1399	47.566	Appendix 9 EF.
non-compressor, 1/2" plug	93313	C	N/A	N/A	11/30/2016	N/A	366	0.1399	51.203	Appendix 9 EF.
non-compressor, 1/2" thread	92225	C	N/A	N/A	12/6/2016	N/A	366	0.1399	51.203	Appendix 9 EF.
non-compressor, 1/2" thread	92225	C	N/A	N/A	12/6/2016	N/A	366	0.1399	51.203	Appendix 9 EF.
non-compressor, 1/2" thread	92225	C	N/A	N/A	12/7/2016	N/A	366	0.1399	51.203	Appendix 9 EF.
non-compressor, 1/2" thread	92301	C	N/A	N/A	12/2/2016	N/A	366	0.1399	51.203	Appendix 9 EF.
non-compressor, 18" plug	92225	C	N/A	N/A	12/6/2016	N/A	366	0.1399	51.203	Appendix 9 EF.
compressor #3 - Valve	92363	V	N/A	N/A	11/9/2016	N/A	366	0.1572	57.535	Appendix 9 EF.
compressor #3 - Valve	92363	V	N/A	N/A	11/9/2016	N/A	366	0.1572	57.535	Appendix 9 EF.
non-compressor, 18" plug	92225	C	N/A	N/A	12/6/2016	N/A	366	0.1399	51.203	Appendix 9 EF.
non-compressor, 2" ball valve	92363	V	N/A	N/A	11/8/2016	11/9/2016	314	0.1572	49.361	Appendix 9 EF.
non-compressor, 2" bushing	92365	C	N/A	N/A	11/10/2016	N/A	366	0.1399	51.203	Appendix 9 EF.
non-compressor, 2" ball valve	92363	v	N/A	N/A	11/8/2016	N/A	366	0.1572	57.535	Appendix 9 EF.
non-compressor, 2" bushing	92365	C	N/A	N/A	11/10/2016	N/A	366	0.1399	51.203	Appendix 9 EF.
non-compressor, 2" cap	92365	C	N/A	N/A	11/9/2016	N/A	366	0.1399	51.203	Appendix 9 EF.
non-compressor, 2" elbow	92365	C	N/A	N/A	11/10/2016	N/A	366	0.1399	51.203	Appendix 9 EF.
non-compressor, 1" valve	92363	V	N/A	N/A	11/8/2016	11/9/2016	314	0.1572	49.361	Appendix 9 EF.
non-compressor, 4" control valve	92363	V	N/A	N/A	11/8/2016	N/A	366	0.1572	57.535	Appendix 9 EF.
non-compressor, 2" ball valve	92363	V	N/A	N/A	11/8/2016	N/A	366	0.1572	57.535	Appendix 9 EF.
non-compressor, 2" ball valve	92363	V	N/A	N/A	11/8/2016	N/A	366	0.1572	57.535	Appendix 9 EF.
non-compressor, 2" elbow	92365	C	N/A	N/A	11/10/2016	N/A	366	0.1399	51.203	Appendix 9 EF.
non-compressor, 2" plug	92225	C	N/A	N/A	12/5/2016	12/5/2016	340	0.1399	47.566	Appendix 9 EF.
non-compressor, 2" plug	92225	C	N/A	N/A	12/5/2016	N/A	366	0.1399	51.203	Appendix 9 EF.
non-compressor, 2" plug	92225	C	N/A	N/A	12/6/2016	12/6/2016	341	0.1399	47.706	Appendix 9 EF.
non-compressor, 2" ball valve	92363	V	N/A	N/A	11/8/2016	N/A	366	0.1572	57.535	Appendix 9 EF.
non-compressor, 2" ball valve	92363	V	N/A	N/A	11/8/2016	N/A	366	0.1572	57.535	Appendix 9 EF.
non-compressor, 1" ball valve	92363	V	N/A	N/A	11/8/2016	11/9/2016	314	0.1572	49.361	Appendix 9 EF.
non-compressor, 2" reducer	93313	C	N/A	N/A	11/30/2016	N/A	366	0.1399	51.203	Appendix 9 EF.
non-compressor, 2" reducer	93313	C	N/A	N/A	11/30/2016	N/A	366	0.1399	51.203	Appendix 9 EF.
non-compressor, 2" tee	92365	C	N/A	N/A	11/10/2016	N/A	366	0.1399	51.203	Appendix 9 EF.
non-compressor, 6" valve	92365	V	N/A	N/A	11/10/2016	N/A	366	0.1572	57.535	Appendix 9 EF.
non-compressor, 6" valve	92365	V	N/A	N/A	11/10/2016	N/A	366	0.1572	57.535	Appendix 9 EF.
non-compressor, 2" tee	92365	C	N/A	N/A	11/10/2016	N/A	366	0.1399	51.203	Appendix 9 EF.
non-compressor, 2" tee	92365	C	N/A	N/A	11/10/2016	N/A	366	0.1399	51.203	Appendix 9 EF.
non-compressor, 2" tee	92365	C	N/A	N/A	11/10/2016	N/A	366	0.1399	51.203	Appendix 9 EF.
non-compressor, 2" thread	92225	C	N/A	N/A	12/5/2016	N/A	366	0.1399	51.203	Appendix 9 EF.
non-compressor, 2" thread	92225	C	N/A	N/A	12/5/2016	N/A	366	0.1399	51.203	Appendix 9 EF.
non-compressor, 1" check valve	92365	V	N/A	N/A	11/10/2016	N/A	366	0.1572	57.535	Appendix 9 EF.
non-compressor, 2" thread	92225	C	N/A	N/A	12/5/2016	N/A	366	0.1399	51.203	Appendix 9 EF.
non-compressor, 1" ball valve	92365	V	N/A	N/A	11/10/2016	N/A	366	0.1572	57.535	Appendix 9 EF.
non-compressor, 1" plug valve	92365	V	N/A	N/A	11/10/2016	N/A	366	0.1572	57.535	Appendix 9 EF.
non-compressor, 2" ball valve	92365	V	N/A	N/A	11/10/2016	N/A	366	0.1572	57.535	Appendix 9 EF.
non-compressor, 2" plug valve	92365	V	N/A	N/A	11/10/2016	N/A	366	0.1572	57.535	Appendix 9 EF.
non-compressor, 2" thread	92365	C	N/A	N/A	11/9/2016	N/A	366	0.1399	51.203	Appendix 9 EF.
non-compressor, 2" thread	92365	C	N/A	N/A	11/9/2016	N/A	366	0.1399	51.203	Appendix 9 EF.
non-compressor, 2" ball valve	92365	V	N/A	N/A	11/10/2016	N/A	366	0.1572	57.535	Appendix 9 EF.
non-compressor, 2" thread	92363	C	N/A	N/A	11/8/2016	N/A	366	0.1399	51.203	Appendix 9 EF.
non-compressor, 2" thread	92365	C	N/A	N/A	12/2/2016	N/A	366	0.1399	51.203	Appendix 9 EF.
non-compressor, 2" thread	92301	C	N/A	N/A	12/2/2016	N/A	366	0.1399	51.203	Appendix 9 EF.
non-compressor, 2" union	92363	C	N/A	N/A	11/7/2016	N/A	366	0.1399	51.203	Appendix 9 EF.

non-compressor, 2" union	92363	C	N/A	N/A	11/7/2016	N/A	366	0.1399	51.203	Appendix 9 EF.
non-compressor, 1" plug valve	92365	V	N/A	N/A	11/10/2016	N/A	366	0.1572	57.535	Appendix 9 EF.
non-compressor, 1" plug valve	92365	V	N/A	N/A	11/10/2016	N/A	366	0.1572	57.535	Appendix 9 EF.
non-compressor, 1" plug valve	92365	V	N/A	N/A	11/10/2016	N/A	366	0.1572	57.535	Appendix 9 EF.
non-compressor, 1" ball valve	92365	V	N/A	N/A	12/2/2016	N/A	366	0.1572	57.535	Appendix 9 EF.
compressor #2 - Valve	92365	V	N/A	N/A	12/2/2016	N/A	366	0.1572	57.535	Appendix 9 EF.
compressor #2 - Valve	92365	V	N/A	N/A	12/2/2016	N/A	366	0.1572	57.535	Appendix 9 EF.
compressor #2 - Valve	92365	V	N/A	N/A	12/2/2016	N/A	366	0.1572	57.535	Appendix 9 EF.
compressor #2 - Valve	92365	V	N/A	N/A	12/2/2016	N/A	366	0.1572	57.535	Appendix 9 EF.
compressor #2 - Valve	92365	V	N/A	N/A	12/2/2016	N/A	366	0.1572	57.535	Appendix 9 EF.
non-compressor, 2" union	92225	C	N/A	N/A	12/5/2016	N/A	366	0.1399	51.203	Appendix 9 EF.
compressor #3 - Valve	92365	V	N/A	N/A	12/2/2016	N/A	366	0.1572	57.535	Appendix 9 EF.
non-compressor, 2" union	92363	C	N/A	N/A	11/8/2016	N/A	366	0.1399	51.203	Appendix 9 EF.
compressor #4 - Valve	92365	V	N/A	N/A	12/2/2016	N/A	366	0.1572	57.535	Appendix 9 EF.
non-compressor, 2" union	92365	C	N/A	N/A	11/10/2016	N/A	366	0.1399	51.203	Appendix 9 EF.
compressor #5 - Valve	92365	V	N/A	N/A	12/2/2016	N/A	366	0.1572	57.535	Appendix 9 EF.
non-compressor, 2" union	92365	C	N/A	N/A	11/10/2016	N/A	366	0.1399	51.203	Appendix 9 EF.
compressor #6 - Valve	92365	V	N/A	N/A	12/2/2016	N/A	366	0.1572	57.535	Appendix 9 EF.
compressor #6 - Valve	92365	V	N/A	N/A	12/2/2016	N/A	366	0.1572	57.535	Appendix 9 EF.
non-compressor, 2" union	92365	C	N/A	N/A	11/10/2016	N/A	366	0.1399	51.203	Appendix 9 EF.
non-compressor, 2" union	92301	C	N/A	N/A	12/2/2016	N/A	366	0.1399	51.203	Appendix 9 EF.
non-compressor, 2" union	92301	C	N/A	N/A	12/2/2016	N/A	366	0.1399	51.203	Appendix 9 EF.
non-compressor, 20" flange	92225	C	N/A	N/A	12/7/2016	N/A	366	0.1399	51.203	Appendix 9 EF.
non-compressor, 20" flange	92363	C	N/A	N/A	11/8/2016	N/A	366	0.1399	51.203	Appendix 9 EF.
non-compressor, 4" ball valve	92365	V	N/A	N/A	12/2/2016	N/A	366	0.1572	57.535	Appendix 9 EF.
non-compressor, 24" plug	93313	C	N/A	N/A	11/30/2016	N/A	366	0.1399	51.203	Appendix 9 EF.
non-compressor, 8" ball valve	92365	V	N/A	N/A	12/2/2016	N/A	366	0.1572	57.535	Appendix 9 EF.
non-compressor, 14" ball valve	92365	V	N/A	N/A	12/2/2016	N/A	366	0.1572	57.535	Appendix 9 EF.
non-compressor, 24" plug	93313	C	N/A	N/A	11/30/2016	N/A	366	0.1399	51.203	Appendix 9 EF.
non-compressor, 3" thread	92225	C	N/A	N/A	12/6/2016	N/A	366	0.1399	51.203	Appendix 9 EF.
non-compressor, 3" union	92225	C	N/A	N/A	12/6/2016	N/A	366	0.1399	51.203	Appendix 9 EF.
non-compressor, 3/4" ball valve	92301	V	N/A	N/A	12/2/2016	N/A	366	0.1572	57.535	Appendix 9 EF.
non-compressor, 3/4" valve	92301	V	N/A	N/A	12/2/2016	N/A	366	0.1572	57.535	Appendix 9 EF.
non-compressor, 3/4" elbow	92225	C	N/A	N/A	12/6/2016	N/A	366	0.1399	51.203	Appendix 9 EF.
non-compressor, 2" ball valve	92301	V	N/A	N/A	12/2/2016	N/A	366	0.1572	57.535	Appendix 9 EF.
non-compressor, 3/4" nipple	92365	C	N/A	N/A	12/2/2016	N/A	366	0.1399	51.203	Appendix 9 EF.
non-compressor, 3/4" plug	92365	C	N/A	N/A	11/9/2016	11/9/2016	314	0.1399	43.929	Appendix 9 EF.
non-compressor, 3/4" plug	92301	C	N/A	N/A	12/2/2016	N/A	366	0.1399	51.203	Appendix 9 EF.
non-compressor, 1" meter	92301	M	N/A	N/A	12/2/2016	N/A	366	0.0728	26.645	Appendix 9 EF.
non-compressor, 2" ball valve	92301	V	N/A	N/A	12/2/2016	N/A	366	0.1572	57.535	Appendix 9 EF.
non-compressor, 1" meter	92301	M	N/A	N/A	12/2/2016	N/A	366	0.0728	26.645	Appendix 9 EF.
non-compressor, 3/4" thread	92365	C	N/A	N/A	11/9/2016	N/A	366	0.1399	51.203	Appendix 9 EF.
non-compressor, 3/4" thread	92365	C	N/A	N/A	11/9/2016	N/A	366	0.1399	51.203	Appendix 9 EF.
non-compressor, 2" ball valve	92301	V	N/A	N/A	12/2/2016	N/A	366	0.1572	57.535	Appendix 9 EF.
non-compressor, 3/4" union	92365	C	N/A	N/A	11/9/2016	N/A	366	0.1399	51.203	Appendix 9 EF.
non-compressor, 4" flange	93001	C	N/A	N/A	11/28/2016	N/A	366	0.1399	51.203	Appendix 9 EF.
non-compressor, reducer	92363	C	N/A	N/A	11/8/2016	11/9/2016	314	0.1399	43.929	Appendix 9 EF.
non-compressor, thread	92225	C	N/A	N/A	12/7/2016	N/A	366	0.1399	51.203	Appendix 9 EF.

Sum Total17,836

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.

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 (#3):

(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:

Transmission Compressor Station Storage Tank Emissions:

Total Number

Note: No facilities of this type.