

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 with the operational design and function of the compressor. Any intentional release of natural gas for safety or maintenance purposes should be included on the Blowdowns worksheet.

Response:

Transmission Compressor Vented Emissions:

| 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) | Annual Emissions (Mscf) | Explanatory Notes / Comments |
|---------|---------------------|-----------------|-------------|---------------------|-----------------|-----------|---|--|--|---|--|--|-------------------------|--|
| Unit 8 | 92225 | R | C | 4 | NA | NA | 1610 | 7164 | 10 | 17.77 | 0 | 0 | 28.61 | GHG Subpart W data |
| Unit 9 | 92225 | R | C | 4 | NA | NA | 1929 | 6588 | 267 | 41.8 | 0 | 0 | 80.63 | GHG Subpart W data |
| Unit 10 | 92225 | R | C | 4 | NA | NA | 981 | 778 | 7025 | 30.3 | 0 | 0 | 29.72 | GHG Subpart W data |
| Unit 11 | 92225 | R | C | 4 | NA | NA | 3251 | 5511 | 22 | 77.6 | 0 | 6 | 252.41 | GHG Subpart W data |
| Unit 12 | 92225 | R | C | 4 | NA | NA | 4641 | 3749 | 394 | 226.92 | 0 | 3.5 | 1,054.51 | GHG Subpart W data |
| Unit 13 | 92225 | R | C | 4 | NA | NA | 3847 | 1963 | 2974 | 203.24 | 0 | 3.5 | 792.27 | GHG Subpart W data |
| Unit 14 | 92225 | R | C | 4 | NA | NA | 4456 | 2983 | 1345 | 1157.66 | 0 | 0 | 5,158.53 | GHG Subpart W data |
| Unit 15 | 92225 | R | C | 4 | NA | NA | 4992 | 3183 | 609 | 226.92 | 0 | 0 | 1,132.78 | GHG Subpart W data |
| CAT 1 | 92225 | R | C | 6 | NA | NA | 2186 | 1281 | 5317 | 3074.41 | 0 | 0 | 6,720.66 | GHG Subpart W data |
| CAT 2 | 92225 | R | C | 6 | NA | NA | 6152 | 1644 | 988 | 513.77 | 0 | 0 | 3,160.71 | GHG Subpart W data |
| Unit 1 | 92363 | R | C | 4 | NA | NA | 1688 | 4228 | 2868 | 1011.06 | 0 | 0 | 1,706.67 | GHG Subpart W data |
| Unit 2 | 92363 | R | C | 4 | NA | NA | 1782 | 4191 | 2811 | 100.19 | 0 | 0 | 178.54 | GHG Subpart W data |
| Unit 3 | 92363 | R | C | 4 | NA | NA | 824 | 4307 | 3653 | 465.73 | 0 | 0 | 383.76 | GHG Subpart W data |
| Unit 4 | 92363 | R | C | 4 | NA | NA | 880 | 4490 | 3414 | 348.22 | 0 | 0 | 306.43 | GHG Subpart W data |
| Unit 5 | 92363 | R | C | 4 | NA | NA | 484 | 5278 | 3022 | 29.54 | 0 | 0 | 14.30 | GHG Subpart W data |
| Unit 6 | 92363 | R | C | 4 | NA | NA | 220 | 3563 | 5001 | 248.71 | 0 | 0 | 54.72 | GHG Subpart W data |
| Unit 7 | 92363 | R | C | 4 | NA | NA | 92 | 3979 | 4713 | 76.89 | 0.2 | 0 | 7.87 | GHG Subpart W data |
| 201 | 93313 | C | C | NA | 2 | D | 1688 | 0 | 7096 | NA | NA | 0 | 0.00 | GHG Subpart W data |
| 301 | 93313 | C | C | NA | 2 | D | 2741 | 0 | 6043 | NA | NA | 0 | 0.00 | GHG Subpart W data |
| 401 | 93313 | C | C | NA | 2 | D | 1138 | 0 | 7646 | NA | NA | 0 | 0.00 | GHG Subpart W data |
| 501 | 93313 | C | C | NA | 2 | D | 735 | 0 | 8049 | NA | NA | 0 | 0.00 | GHG Subpart W data |
| 1 | 92301 | C | C | NA | 1 | W | 0 | 0 | 8784 | 1704 | NA | 0 | 0.00 | Out-of-scope for GHG Subpart W surveys. Used the calculation method to extrapolate emissions since no measurements were taken. |
| 1 | 92351 | C | C | NA | 1 | W | 1323 | 0 | 7461 | 1704 | NA | 0 | 2,254.39 | Out-of-scope for GHG Subpart W surveys. Used the calculation method to extrapolate emissions since no measurements were taken. |
| 1 | 92365 | R | C | 3 | NA | NA | 178 | 8505 | 101 | 386.99 | 0 | 0.35 | 68.92 | Out-of-scope for GHG Subpart W surveys. Used the calculation method to extrapolate emissions since no measurements were taken. |
| 2 | 92365 | R | C | 3 | NA | NA | 328 | 8411 | 45 | 386.99 | 0 | 0.35 | 126.95 | Out-of-scope for GHG Subpart W surveys. Used the calculation method to extrapolate emissions since no measurements were taken. |
| 3 | 92365 | R | C | 3 | NA | NA | 373 | 8220 | 191 | 386.99 | 0 | 0.35 | 144.41 | Out-of-scope for GHG Subpart W surveys. Used the calculation method to extrapolate emissions since no measurements were taken. |
| 4 | 92365 | R | C | 3 | NA | NA | 501 | 8283 | 0 | 386.99 | 0 | 0.35 | 193.88 | Out-of-scope for GHG Subpart W surveys. Used the calculation method to extrapolate emissions since no measurements were taken. |
| 5 | 92365 | R | C | 3 | NA | NA | 470 | 7530 | 784 | 386.99 | 0 | 0.35 | 182.16 | Out-of-scope for GHG Subpart W surveys. Used the calculation method to extrapolate emissions since no measurements were taken. |
| 6 | 92365 | R | C | 3 | NA | NA | 400 | 7843 | 541 | 386.99 | 0 | 0.35 | 154.99 | Out-of-scope for GHG Subpart W surveys. Used the calculation method to extrapolate emissions since no measurements were taken. |
| 7 | 92365 | R | C | 3 | NA | NA | 446 | 7941 | 397 | 386.99 | 0 | 0.35 | 172.74 | Out-of-scope for GHG Subpart W surveys. Used the calculation method to extrapolate emissions since no measurements were taken. |
| 1 | 92363 | R | C | 6 | NA | NA | 1574 | 6021 | 1189 | 1794.09 | 0 | 0 | 2,823.90 | Out-of-scope for GHG Subpart W surveys. Used the calculation method to extrapolate emissions since no measurements were taken. |
| 2 | 92363 | R | C | 6 | NA | NA | 1885 | 5680 | 1219 | 1794.09 | 0 | 0 | 3,381.86 | Out-of-scope for GHG Subpart W surveys. Used the calculation method to extrapolate emissions since no measurements were taken. |
| 3 | 92363 | R | C | 5 | NA | NA | 827 | 1613 | 6344 | 1794.09 | 0 | 0 | 1,483.71 | Out-of-scope for GHG Subpart W surveys. Used the calculation method to extrapolate emissions since no measurements were taken. |
| 4 | 92363 | R | C | 4 | NA | NA | 724 | 8060 | 0 | 38.3 | 0 | 0 | 27.73 | Out-of-scope for GHG Subpart W surveys. Used the calculation method to extrapolate emissions since no measurements were taken. |
| 5 | 92363 | R | C | 4 | NA | NA | 851 | 7883 | 50 | 38.3 | 0 | 0 | 32.59 | Out-of-scope for GHG Subpart W surveys. Used the calculation method to extrapolate emissions since no measurements were taken. |
| 1 | 91344 | R | E | 4 | NA | NA | 0 | 0 | 8784 | 420.87 | 0 | 0 | 0.00 | Out-of-scope for GHG Subpart W surveys. Used the calculation method to extrapolate emissions since no measurements were taken. |
| HPC 1 | 93001 | R | C | 2 | NA | NA | 4228 | 0 | 4556 | 38.3 | 0 | 0 | 161.93 | Out-of-scope for GHG Subpart W surveys. Used the calculation method to extrapolate emissions since no measurements were taken. |
| HPC 2 | 93001 | R | C | 2 | NA | NA | 3017 | 0 | 5767 | 38.3 | 0 | 0 | 115.55 | Out-of-scope for GHG Subpart W surveys. Used the calculation method to extrapolate emissions since no measurements were taken. |
| HPC 3 | 93001 | R | C | 2 | NA | NA | 4060 | 0 | 4724 | 38.3 | 0 | 0 | 155.50 | Out-of-scope for GHG Subpart W surveys. Used the calculation method to extrapolate emissions since no measurements were taken. |

Sum Total

32,544.35

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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 |
|----|---------------------|-----------------|-------------|---------------------|-----------------|-----------|---|--|--|--|--|--|---------------------------|------------------------|------------------------|-------------------------|------------------------------|
|----|---------------------|-----------------|-------------|---------------------|-----------------|-----------|---|--|--|--|--|--|---------------------------|------------------------|------------------------|-------------------------|------------------------------|

Notes: Leaks on compressor piping are reported as "component leaks".

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.

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 | 92363 | 1 | 119.27 | Blowdown for Safety due to Fire panels 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 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:

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 | |

| 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 |
|------------------------------------|---------------------|-------------|------------|--------------|---------------------------|------------------------|------------------------|--------------------------------|-------------------------|------------------------------|
| 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, 1" plug | 92225 | C | N/A | N/A | 12/5/2016 | N/A | 366 | 0.1399 | 51.203 | Appendix 9 EF. |
| non-compressor, 1" plug | 92225 | C | N/A | N/A | 12/5/2016 | N/A | 366 | 0.1399 | 51.203 | Appendix 9 EF. |
| non-compressor, 1" plug | 92225 | C | N/A | N/A | 12/5/2016 | N/A | 366 | 0.1399 | 51.203 | Appendix 9 EF. |
| non-compressor, 1" plug | 92225 | C | N/A | N/A | 12/5/2016 | 12/5/2016 | 340 | 0.1399 | 47.566 | Appendix 9 EF. |
| non-compressor, 1" plug | 92225 | C | N/A | N/A | 12/6/2016 | N/A | 366 | 0.1399 | 51.203 | Appendix 9 EF. |
| non-compressor, 1" plug | 92225 | C | N/A | N/A | 12/7/2016 | N/A | 366 | 0.1399 | 51.203 | Appendix 9 EF. |
| non-compressor, 1" plug | 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 | 12/7/2016 | N/A | 366 | 0.1572 | 57.535 | Appendix 9 EF. |
| non-compressor, 1" plug | 93001 | C | N/A | N/A | 11/28/2016 | N/A | 366 | 0.1399 | 51.203 | Appendix 9 EF. |
| non-compressor, 1" plug | 93001 | C | N/A | N/A | 11/28/2016 | N/A | 366 | 0.1399 | 51.203 | Appendix 9 EF. |
| non-compressor, 1" plug | 92365 | C | N/A | N/A | 11/9/2016 | N/A | 366 | 0.1399 | 51.203 | Appendix 9 EF. |
| non-compressor, 1" needle valve | 92225 | V | N/A | N/A | 12/7/2016 | N/A | 366 | 0.1572 | 57.535 | Appendix 9 EF. |
| non-compressor, 1" needle valve | 92225 | V | N/A | N/A | 12/7/2016 | 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. |

| 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 |
|----------------------------------|---------------------|-------------|------------|--------------|---------------------------|------------------------|------------------------|--------------------------------|-------------------------|------------------------------|
| 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, 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. |

| 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 |
|--------------------------------|---------------------|-------------|------------|--------------|---------------------------|------------------------|------------------------|--------------------------------|-------------------------|------------------------------|
| 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. |

| 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 |
|---------------------------------|---------------------|-------------|------------|--------------|---------------------------|------------------------|------------------------|--------------------------------|-------------------------|------------------------------|
| 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 Total | | | | | | | | | 17,836 | |

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. 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.

Response:

Transmission Compressor Station Storage Tank Emissions:

| Total Number | Discovery Date (DD/MM/YY) | Repair Date (DD/MM/YY) | Number of Days Emitting | Emission Factor (Mscf/yr) | Annual Emissions (Mscf) |
|--------------|------------------------------|---------------------------|-------------------------------|---------------------------------|-------------------------------|
|--------------|------------------------------|---------------------------|-------------------------------|---------------------------------|-------------------------------|

Note: No facilities of this type.

Sum Total **0**