

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 7

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 (#7):

(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
Use the Population based emission factor if facility is not surveyed. Use Leaker based emission factor if facility is surveyed, and report only the found leaking components.

Response:

Underground Storage Facility Leaks and Emissions:

| ID | Geographic Location | Source | Number of Sources | Emission Factor (Mscf/yr) | Annual Emissions (Mscf) | Explanatory Notes / Comments |
|----|---------------------|--------|-------------------|---------------------------|-------------------------|------------------------------|
|----|---------------------|--------|-------------------|---------------------------|-------------------------|------------------------------|

Note: No facilities of this type.

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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:

Underground Storage Facility Compressor Vented Emissions (see note above):

| ID | Geographic Location | Compressor Type | Prime Mover | Number of Cylinders in Compressor | 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 |
|----|---------------------|-----------------|-------------|-----------------------------------|-----------------|-----------|---|--|--|---|--|--|-------------------------|------------------------------|
|----|---------------------|-----------------|-------------|-----------------------------------|-----------------|-----------|---|--|--|---|--|--|-------------------------|------------------------------|

Note: No facilities of this type.

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(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

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:

Underground Storage Facility Compressor Fugitive Leaks (See note above):

| ID | Geographic Location | Compressor Type | Prime Mover | Number of Cylinders in Compressor | 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/D/YY) | Number of Days Leaking | Annual Emissions (Mscf) | Explanatory Notes / Comments |
|----|---------------------|-----------------|-------------|-----------------------------------|-----------------|-----------|---|--|--|---|--|--|---------------------------|-----------------------|------------------------|-------------------------|------------------------------|
|----|---------------------|-----------------|-------------|-----------------------------------|-----------------|-----------|---|--|--|---|--|--|---------------------------|-----------------------|------------------------|-------------------------|------------------------------|

Note: No facilities of this type.

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Note - Definitions 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:

Underground Storage Blowdowns:

| ID | Geographic Location | Source | Compressor Type | Number of Blowdown Events | Annual Emissions (Mscf) | Explanatory Notes / Comments |
|----|---------------------|--------|-----------------|---------------------------|-------------------------|------------------------------|
|----|---------------------|--------|-----------------|---------------------------|-------------------------|------------------------------|

Note: No facilities of this type.

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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 (#7):

(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

intentional release of natural gas for safety or maintenance purposes should be included on the Blowdowns worksheet.

Response:

Underground Storage Component Vented Emissions (See note above):

| ID | Geographic Location | Device Type | Bleed Rate | Manufacturer | Pressure (psi) | Survey Date (MM/DD/YY) | Number of Days Emitting | Emission Factor, Engineering or Manufacturer's based Estimate of Emissions (Mscf/day) | Annual Emissions (Mscf) | Explanatory Notes / Comments |
|----|---------------------|-------------|------------|--------------|----------------|------------------------|-------------------------|---|-------------------------|------------------------------|
|----|---------------------|-------------|------------|--------------|----------------|------------------------|-------------------------|---|-------------------------|------------------------------|

Note: No facilities of this type.

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(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

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:

Underground Storage Component Fugitive Leaks (see note above):

| 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 or Engineering Estimate (Mscf/day) | Annual Emissions (Mscf) | Explanatory Notes / Comments |
|----|---------------------|-------------|------------|--------------|----------------|---------------------------|------------------------|------------------------|--|-------------------------|------------------------------|
|----|---------------------|-------------|------------|--------------|----------------|---------------------------|------------------------|------------------------|--|-------------------------|------------------------------|

Note: No facilities of this type.

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(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:

Underground Storage Dehydrator Vented Emissions:

| ID | Geographic Location | Number of Sources | Emission Factor (Mscf/yr) | Annual Emissions (Mscf) | Explanatory Notes / Comments |
|----|---------------------|-------------------|---------------------------|-------------------------|------------------------------|
|----|---------------------|-------------------|---------------------------|-------------------------|------------------------------|

Note: No facilities of this type.