

SDG&E, June 15th, 2026

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.
In Response to Data Request, R15-01-008 2026 June Report
Appendix 7; Rev. 03/26/2026

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.

Underground Storage Facility Leaks and Emissions:

ID	Geographic Location	Source	Number of Sources	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
----	---------------------	--------	-------------------	---------------------------	------------------------	------------------------	--------------------------------	-------------------------	------------------------------

Not applicable

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.

Footnotes Regarding Changes:

- 1) New Column for Measurement Frequency – See box comments.
- 2) Added new column for Emission Factor Measurement Date – Prioritized Operations.
- 3) Added a fourth column, on our file, reads "OffSite". In a 4th column, a measurement of emissions (CO₂e) should be taken during OffSite mode. In measurements, any emissions from the exhaust

- Dry seals
- Wet seals
- Wet seal oil decreasing vents in Pressurized life mod.

The Columns P thru T were added to the template and should be used for the indicated measure component emisions, which include Centrifugal compressors in accordance with OGI and your operating practice.

For the 2025 data reporting of compressor vented emissions

Where more than one measurement was taken during the year (e.g., after a maintenance cycle), monthly, or quarterly, use the measured E multiplied by the activity hours that occurred during the corresponding period. For example, if the measured E was 0.0008 lb/hr at the time of a maintenance cycle, the measured E should be multiplied by the activity hours that occurred in the respective quarter, and the same for more frequent measurements (e.g., monthly, weekly etc.). For each compressor device only one per measurement period (see example provided). In the case of a single annual measurement E_{avg}, then that value should apply to the activity hours for each respective mode for the entire year (which is consistent with what you report regarding E_{avg}).

If a measurement taken after a maintenance cycle and other measurements were taken, during the remainder of the year, then use the measured E for the activity hours occurring after the measurement was taken (e.g., 12/1/2024). The activity hours prior to the maintenance of the compressor from the beginning of the year should be used as the previously measured E_{avg}, even if the E_{avg} was measured in the prior year.

ID	Geographic Location	Compressor Type	Prime Mover	Number of Cylinders	Number of Stalks	Seal Type	Measurement Frequency	Emission Factor: Measured Data - Assumed Operations	Operating Mode: Prescribed Operating (hour)	Operating Mode: Measured Data (hour)	Operating Mode: Depressurized Data (hour)	Operating Mode: Offline (hour)	Emission Factor: Prescribed Data - Operating Data (kg/hr)	Emission Factor: Measured Data (kg/hr)	Emission Factor: Depressurized Data (kg/hr)	Emission Factor: Prescribed Data - Rod Packing Data (kg/hr)	Emission Factor: Measured Data - Rod Packing Value (kg/hr)	Emission Factor: Prescribed Data - Rod Packing Value (kg/hr)	Annual Emissions (kg/hr)	Explanatory Notes / Comments
----	---------------------	-----------------	-------------	---------------------	------------------	-----------	-----------------------	---	---	--------------------------------------	---	--------------------------------	---	--	---	---	--	--	--------------------------	------------------------------

SDG&E, June 15th, 2026

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.

In Response to Data Request, R15-01-008, 2026 June Report
Appendix 7; Rev. 03/26/2026

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

Underground Storage Blowdowns:

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

Not applicable

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.
In Response to Data Request, R15-01-008 2026 June Report
Appendix 7; Rev. 03/26/2026

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 Blowdowns worksheet.

Underground Storage Component Vented Emissions (See note above):

Quantity	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
----------	---------------------	-------------	------------	--------------	----------------	------------------------	-------------------------	---	-------------------------	------------------------------

Not applicable

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.
In Response to Data Request, R15-01-008 2026 June Report
Appendix 7; Rev. 03/26/2026

Notes:
The number of days leaking may be more than 365 days due to including the estimation function of the leak occurring at half the number of days between the prior survey date and the discovery date.
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.
Please include emissions from leaks found with concentrations below 10,000ppm, and include in the total emissions column. Please use the associated emission factors provided in Appendix 9, Emission Factors.

Underground Storage: Compressor and Component Fugitive Leaks (see note above):							12/31/2025	1/1/2025				
ID	Geographic Location	Device Type	Bleed Rate	Manufacturer	Pressure (psi)	Discovery Date (MM/DD/YY)	Repair Date (MM/DD/YY)	Prior Survey Date (MM/DD/YY)	Number of Days Leaking	Emission Factor or Engineering Estimate (Mscf/day)	Emissions (Mscf)	Explanatory Notes / Comments

Not applicable

SDG&E, June 15th, 2026

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.

**In Response to Data Request, R15-01-008 2026 June Report
Appendix 7; Rev. 03/26/2026**

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 California Air Resources Board (CARB):
Note - Definitions in Data Request, R15-01-008 2026 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 R15-01-008 2026 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

Underground Storage Dehydrator Vented Emissions:

ID	Geographic Location	Type of Dehydrator (Glycol or Desiccant)	Vapor Recovery Unit or Thermal Oxidizer (Y/N)	Annual Volume of Gas Withdrawn (Mscf)	Emission Factor (Y/N)	Engineering Estimate (Y/N)	Annual Emissions (Mscf)	Explanatory Notes / Comments
----	---------------------	--	---	---------------------------------------	-----------------------	----------------------------	-------------------------	------------------------------

Not applicable

Appendix 7; Rev. 03/26/2026

Header column "Comment" boxes displayed below for reference.	
Column Heading	Description and Definition of Required Contents (IF not self-explanatory)
Storage Leaks & Emissions	
ID	
Geographic Location	GIS, zip code, or equivalent
Source	W/C = wellhead connector W/V = wellhead valve W/PRV = wellhead pressure relief valve W/OEL = wellhead open-ended line W/F = wellhead flange W/O = wellhead other C = casing P = pipeline O = other
Number of Sources	
Discovery Date	Report Discovery Date if calculating wellhead component emissions using Leaker EFs
Repair Date	Report Discovery Date if calculating wellhead component emissions using Leaker EFs
Number of Days Leaking	Calculate Number of Days Leaking using the formula: Repair Date minus Discovery Date + 1 day
Emission Factor (Mscf/yr)	
Annual Emissions (Mscf)	
Explanatory Notes / Comments	
Compressor Vented Emissions	
ID	
Geographic Location	GIS, zip code, or equivalent
Compressor Type	C = centrifugal R = reciprocating
Prime Mover	E = electric motor C = internal combustion engine
Number of Cylinders in Compressor	
Number of Seals	
Seal Type	W = wet D = dry O = other
Measurement Frequency	A - Annual Q - Quarterly M - Monthly W - Weekly D - Daily
Emission Factor: Measurement Date - Pressurized Operations	
Operating Mode: Pressurized Operating (hours)	
Operating Mode: Pressurized Idle (hours)	
Operating Mode: Depressurized Idle (hours)	
Operating Mode: Offline (Hours)	
Emission Factor: Pressurized Operating (scf/hr)	Use these EF columns as well as the columns for the Compressor Measurements noted in Columns R thru AB when they are applicable. If the data is not captured by the operator, then add a note explaining why the applicable measurement data was not recorded or available in the Explanatory
Emission Factor: Pressurized Idle (scf/hr)	

Emission Factor: Depressurized Idle (scf/hr)	Notes / Comments column.
Emission Factor: Pressurized Operating - Rod Packing (scf/hr)	<p>These are new columns for reporting year 2020 of 2019 data. These only apply to operators who during their operations and surveys of compressor stations measure their Compressor Vented Emissions for these components of the compressor. Not all gas operators measure vented emissions and establish flow rates for vented emissions while at the various modes of operation.</p> <p>The current regulations require an annual</p>
Emission Factor: Pressurized Operating - Blowdown Valve (scf/hr)	
Emission Factor: Pressurized Idle - Rod Packing (scf/hr)	
Emission Factor: Pressurized Idle - Blowdown Valve (scf/hr)	
Annual Emissions (Mscf)	
Explanatory Notes / Comments	
Blowdowns	
ID	
Geographic Location	GIS, zip code, or equivalent
Source	W = wellhead rework C = compressor P = pipeline O = other
CompressorType	C = centrifugal R = reciprocating
Number of Blowdown Events	
Annual Emissions(Mscf)	
Explanatory Notes / Comments	
Component Vented Emissions	
ID	
Geographic Location	GIS, zip code, or equivalent
Device Type	C = connector OE = open-ended line M = meter P = pneumatic device PR = pressure relief valve V = valve O = other devices
Bleed Rate	L = low bleed I = intermittent bleed H = high bleed NA = not applicable
Manufacturer	
Pressure (psi)	MOP = maximum operating pressure over the past year
Survey Date (MM/DD/YY)	
Number of Days Emitting	Because the emissions are a factor of design or function, these emissions counted for the entire year.
Emission Factor, Engineering or Manufacturer's based Estimate of Emissions (Mscf/day)	Explain in the comment column the basis for your emission estimate.
Annual Emissions (Mscf)	
Explanatory Notes / Comments	

Compressor and Component Fugitive Leaks	
ID	
Geographic Location	GIS, zip code, or equivalent
Device Type	C = connector OE = open-ended line M = meter P = pneumatic device PR = pressure relief valve V = valve O = other devices
Bleed Rate	L = low bleed I = intermittent bleed H = high bleed NA = not applicable
Manufacturer	
Pressure (psi)	MOP = maximum operating pressure over the past year
Discovery Date (MM/DD/YY)	List the actual discovery date. If the leak was discovered in the year of interest, then we will assume the component was leaking from the beginning of the year for emissions reporting purposes.
Repair Date (MM/DD/YY)	Date that the component repair stopped the leak. Any associated blowdowns as a result of the repair should be included in the blowdowns tab.
Prior Survey Date (MM/DD/YY)	Before the discovery date of the leak, there was a "Prior Survey Date" when the compressor station was tested and no leak was found. There should be records as to when the compressor station was last surveyed. If the survey spanned two or more days, enter the final date. Note, a facility level survey date is sufficient to establish the prior survey date.
Number of Days Leaking	<p>The algorithm that is used for determining the number of days leaking should conform to the following guidance:</p> <p>For the number days leaking prior to the date of discovery (survey date in the year of interest), calculate the number of days between the Discovery Date and the Prior Survey Date then divided by 2. [Dividing by 2 approximates the average time leaking between the leak discovery and the prior survey date. See below guidance when a leak is discovered in a prior period and repaired in the year of interest.]</p> $(\text{Discovery Date} - \text{Prior Survey Date})/2$ <p>Calculate the number of days leaking after discovery (survey) date, by subtracting the discovery date from the repair date, unless the leak has not been repaired, where the number of days should be calculated by subtracting the discovery date from December 31 of the year of interest.*</p> $(\text{Repair Date} - \text{Discovery Date}), \text{ unless repair date greater than } 12/31/XX \text{ then use } 12/31/XX$ <p>---</p> $\text{Days Leaking} = (\text{Repair Date} - \text{Discovery Date}) + (\text{Discovery Date} - \text{Prior Survey Date})/2 + 1$ <p>* [This requires tracking the leak across different years, because the leak could be minor and conceivably span more than year before getting repaired. Therefore, in the cases where a leak is carried over to a subsequent year, an annual calculation should be made to reflect that the number of days leaking in the prior year have already been reported in the annual emissions inventory. In subsequent years the carried over leaks should reflect a beginning date of January 1 of the year of interest.]</p>
Emission Factor or Engineering Estimate (Mscf/day)	

Emissions (Mscf)	
Explanatory Notes / Comments	
Dehydrator Vented Emissions	
ID	
Geographic Location	GIS, zip code, or equivalent
Type of Dehydrator (Glycol or Desiccant)	
Vapor Recovery Unit OR Thermal Oxidizer (Y/N)	In order to claim 0 emissions, a Vapor Recovery Unit OR thermal oxidizer must be used 100% of the time during operation
Annual Volume of Gas Withdrawn (Mscf)	
Emission Factor (Y/N)	<p>If the glycol dehydrator has a Vapor Recovery Unit (VRU) or a thermal oxidizer, the emission factor is 0.</p> <p>If using a desiccant dehydrator, the emission factor is 2.23E-03 mt CH₄/MMscf</p>
Engineering Estimate (Y/N)	If using an engineering estimate, please include an attachment of methodology or software used as a separate document. Record the annual emissions
Annual Emissions (Mscf)	<p>For dehydrators using an emission factor, annual emissions are calculated by multiplying annual volume of gas withdrawn and the emission factor</p> <p>For dehydrators using an engineering estimate, record the annual emissions</p>
Explanatory Notes / Comments	