

The emissions captured in this table represent the emissions associated with the operational design and function of the compressor. Any intentional release of stored gas for safety or maintenance purposes should be included in the Workflows worksheet.

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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 - 2025 June Report
Appendix 3; Rev. 03/27/2025

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.

Transmission Compressor Station Blowdowns:

ID	Geographic Location	Number of Blowdown Events	Annual Emissions (Mscf)	Explanatory Notes / Comments
BD-2025-1712	92555	1	6.21	Maintenance blowdown
BD-2025-1711	92555	1	4.42	Maintenance blowdown
BD-2025-1692	92555	1	26.47	Maintenance blowdown
BD-2025-1691	92555	1	65.24	Maintenance blowdown
BD-2025-1690	92555	1	9.08	Maintenance blowdown
BD-2025-1689	92555	1	26.54	Maintenance blowdown
BD-2025-1688	92555	1	6.73	Maintenance blowdown
BD-2025-1687	92555	1	4.64	Maintenance blowdown
BD-2025-1686	92555	1	2.32	Maintenance blowdown
BD-2025-1685	92555	1	6.93	Maintenance blowdown
BD-2024-1644	92555	1	32.01	Maintenance blowdown
BD-2024-1643	92555	1	26.21	Maintenance blowdown
BD-2024-1642	92555	1	22.64	Maintenance blowdown
BD-2024-1641	92555	1	11.05	Maintenance blowdown
BD-2024-1640	92555	1	25.99	Maintenance blowdown
BD-2024-1639	92555	1	4.71	Maintenance blowdown
BD-2024-1578	92555	1	11.11	Maintenance blowdown
BD-2024-1577	92555	1	10.52	Maintenance blowdown
BD-2024-1576	92555	1	7.15	Maintenance blowdown
BD-2024-1575	92555	1	2.17	Maintenance blowdown
BD-2024-1574	92555	1	2.36	Maintenance blowdown
BD-2024-1573	92555	1	54.97	Maintenance blowdown
BD-2024-1572	92555	1	2.37	Maintenance blowdown
BD-2024-1559	92555	1	11.14	Maintenance blowdown
BD-2024-1558	92555	1	7.19	Maintenance blowdown
BD-2024-1557	92555	1	31.83	Maintenance blowdown
BD-2024-1556	92555	1	11.76	Maintenance blowdown
BD-2024-1554	92555	1	31.77	Maintenance blowdown
BD-2024-1553	92555	1	56.87	Maintenance blowdown
BD-2024-1552	92555	1	34.11	Maintenance blowdown
BD-2024-1551	92555	1	4.55	Maintenance blowdown
BD-2024-1532	92555	1	29.15	Maintenance blowdown
BD-2024-1531	92555	1	2.34	Maintenance blowdown
BD-2024-1530	92555	1	4.6	Maintenance blowdown
BD-2024-1529	92555	1	11.3	Maintenance blowdown
BD-2024-1528	92555	1	2.3	Maintenance blowdown
BD-2024-1527	92555	1	2.4	Maintenance blowdown
BD-2024-1526	92555	1	4.6	Maintenance blowdown
BD-2024-1525	92555	1	2.3	Maintenance blowdown
BD-2024-1524	92555	1	4.6	Maintenance blowdown
BD-2024-1476	92555	1	522	ESD Test
BD-2024-1467	92555	1	11.04	Maintenance blowdown
BD-2024-1466	92555	1	15.91	Maintenance blowdown
BD-2024-1465	92555	1	21.95	Maintenance blowdown
BD-2024-1444	92555	1	26.26	Maintenance blowdown
BD-2024-1443	92555	1	66.09	Maintenance blowdown
BD-2024-1442	92555	1	35.68	Maintenance blowdown
BD-2024-1441	92555	1	13.19	Maintenance blowdown
BD-2024-1411	92555	1	56.7	Maintenance blowdown
BD-2024-1410	92555	1	2.04	Maintenance blowdown
BD-2024-1384	92555	1	10.64	Maintenance blowdown
BD-2024-1383	92555	1	25.89	Maintenance blowdown
BD-2024-1382	92555	1	4.45	Maintenance blowdown
BD-2024-1381	92555	1	64.98	Maintenance blowdown
BD-2024-1380	92555	1	4.46	Maintenance blowdown
BD-2024-1379	92555	1	2.09	Maintenance blowdown
BD-2024-1378	92555	1	2.28	Maintenance blowdown
BD-2024-1377	92555	1	4.48	Maintenance blowdown
BD-2024-1376	92555	1	6.05	Maintenance blowdown
BD-2024-1375	92555	1	214.58	Maintenance blowdown
NA	92555	89	1.78	Relief Valve Inspections - Estimated avg. gas vented = 20 scf/insp
NA	92555	17	0.425	Meter/orifice 25 scf/each
NA	92555	10	0.3	Filter Change-outs or Filter Inspections w/parts replacement - Estimated avg. gas vented = 30 scf/ea
NA	92555	4	0.008	Controllers - Estimated avg. gas vented = 2 scf/insp
NA	92555	4	0.008	Actuators - Estimated avg. gas vented = 2 scf/insp
NA	SDG&E Territory	27	7.37	Blowdown for valve changes at LNG facility
NA	SDG&E Territory	21	39.68	Total Gas Lost Due to filling operations at LNG facility
Sum Total			1,785	

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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 - 2025 June Report

Appendix 3; Rev. 03/27/2025

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.

Transmission Compressor Station Component Vented Emissions:

Quantity	Geographic Location	Device Type	Bleed Rate	Manufacturer	Engineering or Manufacturer's based Estimate of Emissions	Annual Emissions (Mscf)	Explanatory Notes / Comments
8	92555 P	I	Misc.		0.0576	168.65	
Sum Total						169	

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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 Please include emissions from leaks found with concentrations below 10,000ppm, and add them in the total emissions column. Please use the associated emission factors provided in Appendix 9, Emission Factors.

Transmission Compressor Station: Compressor and Component Fugitive Leaks:					12/31/24	01/01/24				
ID	Geographic Location	Facility/Device Type	Emission Factor: Mscf/day/dev	Manufacturer	Discovery Date (MM/DD/Yr)	Repair Date (MM/DD/Yr)	Prior Survey Date (MM/DD/Yr)	Number of Days Leaking	Annual Emissions (Mscf)	Explanatory Notes / Comments
8913696	9255S OT		0.0984		5/8/2024	4/4/2025	7/28/2023	381	37.44	
8921224	9255S V		0.1541		3/18/2024	3/20/2024	10/3/2023	87	13.33	
8921196	9255S PR		0.0482		3/18/2024	4/2/2024	10/3/2023	100	4.80	
8819496	9255S OT		0.0984		3/18/2024		10/3/2023	373	36.65	
8819515	9255S V		0.1541		3/19/2024		10/3/2023	372	57.33	
8921236	9255S V		0.1541		3/20/2024	3/20/2024	10/3/2023	86	13.18	
8819587	9255S C		0.137		6/17/2024	6/17/2024	3/18/2024	47	6.37	
8819564	9255S C		0.137		6/17/2024	6/17/2024	3/18/2024	47	6.37	
8945573	9255S C		0.137		6/18/2024	7/5/2024	3/18/2024	64	8.77	
8819575	9255S V		0.1541		6/18/2024		3/18/2024	243	37.45	
8921874	9255S V		0.1541		6/19/2024	6/19/2024	3/18/2024	48	7.32	
8921777	9255S V		0.1541		6/19/2024	6/19/2024	3/18/2024	48	7.32	
8945574	9255S C		0.137		6/19/2024	6/19/2024	3/18/2024	48	6.51	
8922042	9255S C		0.137		9/16/2024	9/19/2024	6/17/2024	50	6.78	
8921954	9255S C		0.1342		9/16/2024	9/17/2024	6/17/2024	48	6.37	Compressor component
8946131	9255S OT		0.0984		9/16/2024	9/17/2024	6/17/2024	48	4.67	Compressor component
8946433	9255S V		0.1541		9/16/2024	9/17/2024	6/17/2024	48	7.32	
8819480	9255S C		0.137		9/16/2024	9/30/2024	6/17/2024	61	8.29	
8921986	9255S C		0.137		9/17/2024	12/23/2024	6/17/2024	144	19.73	
8946349	9255S C		0.137		9/17/2024	12/23/2024	6/17/2024	144	19.73	
8921968	9255S C		0.137		9/17/2024	9/17/2024	6/17/2024	47	6.44	
8946456	9255S OT		0.0984		9/17/2024	9/19/2024	6/17/2024	49	4.82	
8922086	9255S V		0.1541		9/18/2024	9/19/2024	6/17/2024	49	7.47	
8819618	9255S V		0.1541		9/18/2024	9/30/2024	6/17/2024	60	9.17	
8922065	9255S V		0.1541		9/18/2024	9/19/2024	6/17/2024	49	7.47	
8922127	9255S V		0.1541		9/19/2024	2/10/2025	6/17/2024	151	23.27	
8830309	9255S V		0.1541		12/16/2024	12/18/2024	9/16/2024	49	7.47	
8830273	9255S V		0.1541		12/16/2024	12/17/2024	9/16/2024	48	7.32	
8830280	9255S V		0.1541		12/16/2024	12/23/2024	9/16/2024	54	8.24	
8830249	9255S C		0.137		12/16/2024	12/17/2024	9/16/2024	48	6.51	
8830281	9255S OT		0.0984		12/16/2024	12/23/2024	9/16/2024	48	5.26	
8830255	9255S C		0.137		12/16/2024	12/17/2024	9/16/2024	48	6.51	
8830283	9255S V		0.1541		12/16/2024	12/17/2024	9/16/2024	48	7.32	
8967574	9255S C		0.137		3/20/2024	9/3/2024	10/3/2023	253	34.59	
8971118	9255S C		0.137		9/16/2024	9/19/2024	6/17/2024	50	6.78	
8968392	9255S C		0.137		9/16/2024	9/19/2024	6/17/2024	50	6.78	
8968377	9255S C		0.137		9/18/2024	9/19/2024	6/17/2024	49	6.64	
8971034	9255S V		0.1541		9/18/2024	9/19/2024	6/17/2024	49	7.47	
8968422	9255S C		0.137		9/18/2024	9/19/2024	6/17/2024	49	6.64	
8968412	9255S C		0.137		3/18/2024	3/20/2024	10/3/2023	87	11.85	
8968386	9255S C		0.137		3/18/2024	3/20/2024	10/3/2023	87	11.85	
8968453	9255S V		0.1541		3/20/2024	4/9/2024	10/3/2023	106	16.26	
8968417	9255S V		0.1541		3/20/2024	4/9/2024	10/3/2023	106	16.26	
Sum Total								548		

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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)	Explanatory Notes / Comments
1	4/17/2024	4/17/2024	1	N/A		3.12 LNG Tank Pressure Release
Sum Total					3	

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Header column "Comment" boxes displayed below for reference.	
Column Heading	Description and Definition of Required Contents (IF not self-explanatory)
Compressor Vented Emissions	
ID	
Geographic Location	GIS, zip code, or equivalent
Compressor Type	C = centrifugal R = reciprocating
Prime Mover	
Number of Cylinders	
Number of Seals	
Seal Type	W = wet D = dry NA = not applicable
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 Notes / Comments column.
Emission Factor: Pressurized Idle (scf/hr)	
Emission Factor: Depressurized Idle (scf/hr)	
Emission Factor: Offline (scf/hr)	If the "Offline" hours are counted, then a measurement of "offline" emissions should be taken to determine whether emissions occur. (We should not assume they are zero.)
Emission Factor: Pressurized Operating - Rod Packing (scf/hr)	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. The current regulations require an annual
Emission Factor: Pressurized Operating - Blowdown Valve (scf/hr)	
Emission Factor: Pressurized Operating - Wet Seal Oil Degassing Vent (scf/hr)	
Emission Factor: Pressurized Operating - Wet Seal (scf/hr)	

Emission Factor: Pressurized Operating - Dry Seal (scf/hr)	<p>CPUC Staff strongly encourage more frequent measurement of the following compressor vented emissions. Compliance minimum is once annually, though Staff suggest the minimum frequency should be quarterly and measured at roughly the same time each quarter (e.g. on or around the component survey given mode of operation). More frequent measurements, e.g. monthly would be better due to the temporal changes in conditions that effect emissions. The more frequent measurements also provide an opportunity to detect worn rod packing or seals, which exacerbate emissions, and with timely awareness of suboptimal operations gas operators have an opportunity for accelerating maintenance to correct worn parts. The following steps for reporting more frequent measurements in 2020 are outlined in the adjacent cell, and should be provided if available.</p>
Emission Factor: Pressurized Idle - Rod Packing (scf/hr)	
Emission Factor: Pressurized Idle - Blowdown Valve (scf/hr)	
Emission Factor: Pressurized Idle - Wet Seal Oil Degassing Vent (scf/hr)	
Emission Factor: Pressurized Idle - Wet Seal (scf/hr)	
Emission Factor: Pressurized Idle - Dry Seal (scf/hr)	
Emission Factor: Pressurized Idle - Isolation Valve (scf/hr)	
Annual Emissions (Mscf)	
Explanatory Notes / Comments	
Blowdowns	
ID	
Geographic Location	GIS, zip code, or equivalent
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 O = open-ended line M = meter P = pneumatic device PR = pressure relief valve V = valve
Bleed Rate	L = low bleed I = intermittent bleed H = high bleed NA = not applicable
Manufacturer	
Engineering or Manufacturer's based Estimate of Emissions	
Annual Emissions (Mscf)	
Explanatory Notes / Comments	
Compressor & Component Fugitive Leaks	
ID	
Geographic Location	GIS, zip code, or equivalent
Device Type	C = connector O = open-ended line M = meter P = pneumatic device PR = pressure relief valve V = valve OT = Other
Emission Factor: Mscf/day/dev	From Appendix 9 use the applicable EF, and if necessary convert it to Mscf/day for each device.
Manufacturer	
Discovery Date (MM/DD/YY)	<p>List the actual discovery date.</p> <p>If the leak was discovered in the year of interest or carried over from prior year, then we will assume the component was leaking from the beginning of the year for emissions reporting purposes, or prior survey date if surveyed previously within the year of interest.</p>

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)	<p>Before the discovery date of the leak, there was a "Prior Survey Date" when the compressor station was tested and no leak was found.</p> <p>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.</p> <p>Note, a facility level survey date is sufficient to establish the prior survey date.</p>
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> <p>$(\text{Discovery Date} - \text{Prior Survey Date}) / 2$</p> <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> <p>$(\text{Repair Date} - \text{Discovery Date})$, unless repair date greater than 12/31/XX then use 12/31/XX</p> <p>---</p> <p>$\text{Days Leaking} = (\text{Repair Date} - \text{Discovery Date}) + (\text{Discovery Date} - \text{Prior Survey Date}) / 2 + 1$</p> <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>
Annual Emissions (Mscf)	
Explanatory Notes / Comments	
Storage Tanks	
Total Number	
Discovery Date (DD/MM/YY)	
Repair Date (DD/MM/YY)	
Number of Days Emitting	Emitting from discovery date thru the repair date (if repaired in year of interest) or December 31 of subject year, whichever is earlier. (Duration of Leak = discovery date - repair date (or December 31) + 1 day.)
Emission Factor (Mscf/yr)	
Annual Emissions (Mscf)	