

Note 1: The consolidated balance sheet and statement of assets and liabilities are presented on a consolidated basis for the Federal Reserve System, including the Board of Governors, the Reserve Banks, and the Federal Reserve Bank of Washington, D.C. The consolidated balance sheet and statement of assets and liabilities are presented on a consolidated basis for the Federal Reserve System, including the Board of Governors, the Reserve Banks, and the Federal Reserve Bank of Washington, D.C.

Assets	Liabilities
Reserve Bank Assets	Reserve Bank Liabilities
Board of Governors Assets	Board of Governors Liabilities
System Assets	System Liabilities

Assets	Liabilities	Equity	Total
Reserve Bank Assets	Reserve Bank Liabilities	Reserve Bank Equity	Total
Board of Governors Assets	Board of Governors Liabilities	Board of Governors Equity	Total
System Assets	System Liabilities	System Equity	Total

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SoCalGas, June 15th, 2023

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 - 2023 June Report
Appendix 3; Rev. 03/30/2023

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-2022-428	92351	1	352.7	Blowdown for repair
BD-2022-432	92225	1	2577.0	Station shutdown
BD-2022-433	92225	1	1970.0	Station shutdown
BD-2022-434	92225	1	18.6	Maintenance blowdown
BD-2022-435	92225	1	19.2	Maintenance blowdown
BD-2022-436	93203	1	27.7	Maintenance blowdown
BD-2022-437	93203	1	29.3	Maintenance blowdown
BD-2022-438	93203	1	28.3	Maintenance blowdown
BD-2022-440	93203	1	27.6	Maintenance blowdown
BD-2022-441	93203	2	55.2	Maintenance blowdown
BD-2022-442	93203	2	58.4	Maintenance blowdown
BD-2022-443	93203	1	29.5	Maintenance blowdown
BD-2022-444	93203	1	30.2	Maintenance blowdown
BD-2022-445	93203	1	26.6	Maintenance blowdown
BD-2022-446	93203	1	27.9	Maintenance blowdown
BD-2022-447	93203	3	84.6	Maintenance blowdown
BD-2022-448	93203	2	57.3	Maintenance blowdown
BD-2022-449	93203	2	59.6	Maintenance blowdown
BD-2022-450	93203	1	25.3	Maintenance blowdown
BD-2022-451	92365	1	28.1	Maintenance blowdown
BD-2022-452	92365	1	16.0	Maintenance blowdown
BD-2022-463	92225	1	13.8	Maintenance blowdown
BD-2022-464	93203	1	27.8	Maintenance blowdown
BD-2022-465	93203	1	25.5	Maintenance blowdown
BD-2022-466	93203	1	27.2	Maintenance blowdown
BD-2022-467	93203	2	78.6	Maintenance blowdown
BD-2022-468	93203	1	24.4	Maintenance blowdown
BD-2022-469	93203	1	26.6	Maintenance blowdown
BD-2022-470	92225	4	79.5	Maintenance blowdown
BD-2022-472	93203	1	29.1	Maintenance blowdown
BD-2022-473	93203	1	30.0	Maintenance blowdown
BD-2022-474	93203	1	28.1	Maintenance blowdown
BD-2022-475	93203	1	26.8	Maintenance blowdown
BD-2022-476	93203	1	27.9	Maintenance blowdown
BD-2022-477	93203	1	28.3	Maintenance blowdown
BD-2022-493	93203	1	29.2	Maintenance blowdown
BD-2022-494	93203	2	52.7	Maintenance blowdown
BD-2022-495	93203	1	21.1	Maintenance blowdown
BD-2022-496	93203	1	26.5	Maintenance blowdown
BD-2022-497	93203	1	28.4	Maintenance blowdown
BD-2022-498	93203	1	27.3	Maintenance blowdown
BD-2022-499	93203	1	27.1	Maintenance blowdown
BD-2022-500	93203	1	27.8	Maintenance blowdown
BD-2022-501	93203	1	30.3	Maintenance blowdown
BD-2022-502	93203	1	27.7	Maintenance blowdown
BD-2022-503	93203	1	23.6	Maintenance blowdown
BD-2022-504	93203	2	76.7	Maintenance blowdown
BD-2022-505	93203	1	27.3	Maintenance blowdown
BD-2022-511	92365	1	29.1	Maintenance blowdown
BD-2022-521	93203	1	29.2	Maintenance blowdown
BD-2022-522	93203	1	28.1	Maintenance blowdown
BD-2022-523	93203	2	53.1	Maintenance blowdown
BD-2022-524	93203	1	25.3	Maintenance blowdown
BD-2022-525	93203	1	26.0	Maintenance blowdown
BD-2022-526	93203	1	26.5	Maintenance blowdown
BD-2022-527	93203	1	26.9	Maintenance blowdown
BD-2022-528	93203	1	29.9	Maintenance blowdown
BD-2022-529	93203	2	52.3	Maintenance blowdown
BD-2022-530	93203	1	29.2	Maintenance blowdown
BD-2022-551	93203	1	29.6	Maintenance blowdown
BD-2022-552	93203	1	28.4	Maintenance blowdown
BD-2022-553	93203	2	57.0	Maintenance blowdown
BD-2022-554	93203	4	108.2	Maintenance blowdown
BD-2022-555	93203	2	59.3	Maintenance blowdown
BD-2022-556	93203	1	28.9	Maintenance blowdown
BD-2022-557	93203	1	28.7	Maintenance blowdown
BD-2022-558	93203	2	57.5	Maintenance blowdown
BD-2022-559	93203	2	56.7	Maintenance blowdown
BD-2022-560	93203	1	29.7	Maintenance blowdown
BD-2022-561	93203	2	54.6	Maintenance blowdown
BD-2022-562	93203	1	26.9	Maintenance blowdown
BD-2022-563	93203	1	26.9	Maintenance blowdown
BD-2022-564	93203	3	84.0	Maintenance blowdown
BD-2022-565	92365	1	21.8	Maintenance blowdown
BD-2022-612	93203	2	154.3	Maintenance blowdown
BD-2022-613	93203	1	29.2	Maintenance blowdown
BD-2022-614	93203	1	27.3	Maintenance blowdown
BD-2022-615	93203	1	26.8	Maintenance blowdown
BD-2022-616	93203	1	59.5	Operations blowdown
BD-2022-617	93203	2	72.4	Maintenance blowdown
BD-2022-618	93203	1	28.3	Maintenance blowdown
BD-2022-619	93203	2	56.0	Maintenance blowdown
BD-2022-620	93203	1	27.0	Maintenance blowdown
BD-2022-621	93203	1	27.7	Maintenance blowdown

BD-2022-622	93203	1	27.2 Maintenance blowdown
BD-2022-623	93203	1	26.5 Maintenance blowdown
BD-2022-624	93203	2	57.5 Maintenance blowdown
BD-2022-625	93203	1	27.8 Maintenance blowdown
BD-2022-627	92301	1	169.0 ESD Test
BD-2022-642	93203	2	49.3 Maintenance blowdown
BD-2022-643	93203	1	26.9 Maintenance blowdown
BD-2022-644	93203	1	28.9 Maintenance blowdown
BD-2022-645	93203	2	52.1 Maintenance blowdown
BD-2022-646	93203	1	24.3 Maintenance blowdown
BD-2022-647	93203	1	22.5 Maintenance blowdown
BD-2022-648	93203	1	26.8 Maintenance blowdown
BD-2022-649	93203	1	48.5 Maintenance blowdown
BD-2022-650	93203	1	28.8 Maintenance blowdown
BD-2022-661	92225	1	32.3 Maintenance blowdown
BD-2022-662	92225	1	16.9 Maintenance blowdown
BD-2022-681	93203	1	24.9 Maintenance blowdown
BD-2022-682	93203	1	24.8 Maintenance blowdown
BD-2022-683	93203	1	28.6 Maintenance blowdown
BD-2022-684	93203	1	24.4 Maintenance blowdown
BD-2022-685	93203	1	25.0 Maintenance blowdown
BD-2022-686	93203	1	25.1 Maintenance blowdown
BD-2022-687	93203	1	25.4 Operations blowdown
BD-2022-688	93203	1	24.3 Maintenance blowdown
BD-2022-689	93203	1	28.8 Maintenance blowdown
BD-2022-691	92365	1	70.2 Maintenance blowdown
BD-2022-692	92365	1	31.0 Maintenance blowdown
BD-2022-693	92365	1	31.3 Maintenance blowdown
BD-2022-694	92365	1	29.8 Maintenance blowdown
BD-2022-703	92225	1	16.9 Maintenance blowdown
BD-2022-704	92225	1	16.7 Maintenance blowdown
BD-2022-705	92225	1	17.3 Maintenance blowdown
BD-2023-712	93203	1	29.1 Maintenance blowdown
BD-2023-713	93203	1	58.4 Maintenance blowdown
BD-2023-714	93203	1	28.0 Maintenance blowdown
BD-2023-715	93203	2	47.8 Maintenance blowdown
BD-2023-716	93203	2	74.8 Maintenance blowdown
BD-2023-717	93203	1	24.6 Maintenance blowdown
BD-2023-718	93203	1	24.8 Maintenance blowdown
BD-2023-719	93203	1	61.7 Maintenance blowdown
BD-2023-720	93203	1	25.0 Maintenance blowdown
BD-2023-721	93203	2	52.9 Maintenance blowdown
BD-2023-722	93203	1	28.7 Maintenance blowdown
BD-2023-723	93203	1	28.4 Maintenance blowdown
BD-2023-724	93203	1	27.8 Maintenance blowdown
BD-2023-726	92365	1	30.9 Maintenance blowdown
BD-2023-727	92365	1	11.8 Maintenance blowdown
BD-2023-728	92365	1	72.5 Maintenance blowdown
BD-2023-729	92365	1	12.0 Maintenance blowdown
BD-2023-730	92365	1	21.0 Maintenance blowdown
BD-2023-743	92225	2	35.0 Maintenance blowdown
BD-2023-744	92225	1	16.6 Maintenance blowdown
BD-22-132	92363	1	10.9 Maintenance blowdown
BD-22-133	92363	1	61.5 Maintenance blowdown
BD-22-134	92363	1	16.0 Maintenance blowdown
BD-22-135	92363	2	75.0 Maintenance blowdown
BD-22-136	92363	1	11.5 Maintenance blowdown
BD-22-137	92363	5	449.0 Maintenance blowdown
BD-22-138	92363	7	623.0 Maintenance blowdown
BD-22-139	92363	1	16.4 Maintenance blowdown
BD-22-140	92363	7	150.1 Maintenance blowdown
BD-22-141	92363	2	72.5 Maintenance blowdown
BD-22-142	92363	2	35.0 Maintenance blowdown
BD-22-143	92363	1	31.6 Maintenance blowdown
BD-22-144	92363	2	94.6 Maintenance blowdown
BD-22-145	92363	1	217.1 Station shutdown
BD-22-146	92363	1	212.5 Maintenance blowdown
BD-22-147	92363	6	232.0 Maintenance blowdown
BD-22-148	92363	3	82.0 Maintenance blowdown
BD-22-149	92363	1	132.0 Maintenance blowdown
BD-22-150	92363	1	61.0 Maintenance blowdown
BD-22-151	92363	1	66.0 Maintenance blowdown
BD-22-152	92363	1	16.0 Maintenance blowdown
BD-22-153	92363	1	16.0 Maintenance blowdown
BD-22-76	92225	1	7.2 Plant blowdown
NA	Various	3	2.5 Drips - Estimated avg. gas vented = 10,000 cfh for 5min/device
NA	Various	195	0.4 Actuators - Estimated avg. gas vented = 2 scf/insp (Actuator/Controller)
NA	Various	2	0.0 Controllers - Estimated avg. gas vented = 2 scf/insp (Actuator/Controller)
NA	Various	9	0.2 Analyzer - Estimated avg. gas vented = 20 scf/insp
NA	Various	33	0.8 Meters - Estimated avg. gas vented = 25 scf/ea
NA	Various	28	0.8 Filter Change-outs or Filter Inspections w/parts replacement - Estimated avg. gas vented = 30 scf/ea
NA	Various	204	4.1 Relief Valve Inspections - Estimated avg. gas vented = 20 scf/insp (annual test with Nitrogen, gas vented is volume of gas in valve)

Sum Total	12,529
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SoCalGas, June 15th, 2023

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In Response to Data Request, R15-01-008 - 2023 June Report

Appendix 3; Rev. 03/30/2023

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:

ID	Geographic Location	Device Type	Bleed Rate	Manufacturer	Engineering or Manufacturer's based Estimate of Emissions	Annual Emissions (Mscf)	Explanatory Notes / Comments
16		P	I		0.0576	336	Controllers
123		P	I		0.0576	2,586	Actuators
Sum Total						2,922	

SoCalGas, June 15th, 2023

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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.

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
4	N/A	N/A	365	N/A	132.2	Condensate Tank
1	N/A	N/A	365	N/A	32.9	Aboveground Waste Condensate Vessel
Sum Total					165	

Appendix 3; Rev. 03/30/2023

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)	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.
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)	List the actual discovery date. 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.

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)	