

Notes:

Use a formula-derived value with the formula word 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 cell for a column total, and then highlight orange.

The emissions captured on this tab represent the emissions associated with the operational design and location of the compressor. Any intentional release of natural gas for safety or maintenance purposes should be included on the How-to-use worksheet.

[illegible]

SDG&E June 15th, 2022

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 - 2022 June Report Appendix 3 - Rev. 03/30/22

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-2021-39	92555	3	4.94	Maintenance Blowdown
BD-2021-40	92555	3	3.36	Maintenance Blowdown
BD-2021-41	92555	1	10.08	Maintenance Blowdown
BD-2021-42	92555	1	10.26	Maintenance Blowdown
BD-2021-43	92555	2	3.51	Maintenance Blowdown
BD-2021-44	92555	1	1.73	Maintenance Blowdown
BD-2021-45	92555	2	3.46	Maintenance Blowdown
BD-2021-46	92555	4	38.69	Maintenance Blowdown
BD-2021-47	92555	1	20.75	Maintenance Blowdown
BD-2021-48	92555	1	3.53	Maintenance Blowdown
BD-2021-118	92555	2	51.68	Repaire Blowdown
BD-2021-49	92555	1	53.4	Maintenance Blowdown
BD-2021-50	92555	4	6.71	Maintenance Blowdown
BD-2021-69	92555	1	22.29	Maintenance Blowdown
BD-2021-70	92555	1	1.91	Maintenance Blowdown
BD-2021-71	92555	2	3.46	Maintenance Blowdown
BD-2021-72	92555	2	3.57	Maintenance Blowdown
BD-2021-113	92555	1	3.06	Maintenance Blowdown
BD-2021-91	92555	2	3.67	Maintenance Blowdown
BD-2021-92	92555	2	3.47	Maintenance Blowdown
BD-2021-93	92555	1	53.82	Maintenance Blowdown
BD-2021-94	92555	3	4.85	Maintenance Blowdown
BD-2021-117	92555	1	3.05	Maintenance Blowdown
BD-2021-116	92555	1	3.05	Maintenance Blowdown
BD-2021-115	92555	1	3.05	Maintenance Blowdown
BD-2021-114	92555	1	3.05	Maintenance Blowdown
BD-2021-95	92555	5	55.83	Maintenance Blowdown
BD-2021-96	92555	1	20.11	Maintenance Blowdown
BD-2021-97	92555	4	13.45	Maintenance Blowdown
BD-2021-134	92555	3	27.27	Maintenance Blowdown
BD-2021-135	92555	3	103.76	Maintenance Blowdown
BD-2021-136	92555	2	31.78	Maintenance Blowdown
BD-2021-137	92555	1	21.45	Maintenance Blowdown
BD-2021-138	92555	1	30.77	Maintenance Blowdown
BD-2021-154	92555	1	57.45	Maintenance Blowdown
BD-2021-155	92555	1	3.77	Maintenance Blowdown
BD-2021-156	92555	4	7.07	Maintenance Blowdown
BD-2021-157	92555	1	81.3	Maintenance Blowdown
BD-2021-158	92555	4	7.36	Maintenance Blowdown
BD-2021-159	92555	2	3.36	Maintenance Blowdown
BD-2021-160	92555	2	3.49	Maintenance Blowdown
BD-2021-161	92555	1	1.64	Maintenance Blowdown
BD-2021-179	92555	3	18.15	Maintenance Blowdown
BD-2021-180	92555	1	1.87	Maintenance Blowdown
BD-2021-181	92555	1	3.62	Maintenance Blowdown
BD-2021-182	92555	4	7.06	Maintenance Blowdown
BD-2021-183	92555	1	1.71	Maintenance Blowdown
BD-2021-184	92555	4	7.08	Maintenance Blowdown
BD-2021-185	92555	1	8.48	Maintenance Blowdown
BD-2021-186	92555	1	49.94	Maintenance Blowdown
BD-2021-187	92555	2	3.7	Maintenance Blowdown
BD-2021-188	92555	2	3.61	Maintenance Blowdown
BD-2021-189	92555	6	26.24	Maintenance Blowdown
BD-2021-190	92555	1	11.9	Maintenance Blowdown
BD-2021-242	92555	1	8.86	Maintenance Blowdown
BD-2021-243	92555	1	18.74	Maintenance Blowdown
BD-2021-244	92555	2	55.23	Maintenance Blowdown
BD-2021-245	92555	1	1.87	Maintenance Blowdown
BD-2021-246	92555	2	12.99	Maintenance Blowdown

BD-2021-247	92555	3	5.29 Maintenance Blowdown
BD-2021-248	92555	2	3.21 Maintenance Blowdown
BD-2021-249	92555	3	5 Maintenance Blowdown
BD-2021-250	92555	2	47.42 Maintenance Blowdown
BD-2021-251	92555	4	6.84 Maintenance Blowdown
BD-2021-252	92555	1	8.53 Maintenance Blowdown
BD-2021-268	92555	1	8.5 Maintenance Blowdown
BD-2021-269	92555	5	27.23 Maintenance Blowdown
BD-2021-270	92555	4	16.7 Maintenance Blowdown
BD-2021-271	92555	2	3.23 Maintenance Blowdown
BD-2021-272	92555	1	1.88 Maintenance Blowdown
BD-2021-273	92555	4	6.94 Maintenance Blowdown
BD-2021-293	92555	3	5.17 Maintenance Blowdown
BD-2021-294	92555	3	5.5 Maintenance Blowdown
BD-2021-295	92555	1	25.28 Maintenance Blowdown
BD-2021-296	92555	1	9.78 Maintenance Blowdown
BD-2021-297	92555	2	83 Maintenance Blowdown
BD-2021-298	92555	1	18.75 Maintenance Blowdown
BD-2021-299	92555	1	5.09 Maintenance Blowdown
BD-2022-372	92555	6	134.56 Maintenance Blowdown
BD-2022-389	92555	1	54.39 Maintenance Blowdown
BD-2022-390	92555	5	16.23 Maintenance Blowdown
BD-2022-391	92555	3	40.99 Maintenance Blowdown
BD-2022-392	92555	2	3.62 Maintenance Blowdown
BD-2022-393	92555	1	9.41 Maintenance Blowdown
BD-2022-394	92555	1	19.76 Maintenance Blowdown
BD-2022-395	92555	2	3.41 Maintenance Blowdown
BD-2022-396	92555	2	3.61 Maintenance Blowdown
BD-2022-419	92555	4	7.25 Maintenance Blowdown
BD-2022-344	92555	1	43.05 Maintenance Blowdown
BD-2022-345	92555	1	23.4 Maintenance Blowdown
BD-2022-346	92555	2	3.66 Maintenance Blowdown
BD-2022-347	92555	1	24.81 Maintenance Blowdown
BD-2022-348	92555	1	20.1 Maintenance Blowdown
BD-2022-349	92555	1	41.01 Maintenance Blowdown
BD-2022-350	92555	1	23.05 Maintenance Blowdown
BD-2022-420	92555	1	669.35 Emergency safety shutdown
BD-2022-421	92555	1	666.69 Emergency safety shutdown
NA	SDG&E Territory	28	0.56 Relief Valve Inspections at Transmission Pipeline - Estimated avg. gas vented = 20 scf/insp
NA	SDG&E Territory	15	0.375 Meter/orifice 25 scf/each
NA	SDG&E Territory	8	0.24 Filter Change-outs or Filter Inspections w/parts replacement - Estimated avg. gas vented = 30 scf/ea
NA	SDG&E Territory	14	0 Valve Actuator (PCV) inspection
NA	SDG&E Territory	1	7.37 Blowdown for valve changes at LNG facility
NA	SDG&E Territory	1	49.864 Total Gas Lost Due to filling operations at LNG facility
NA	SDG&E Territory	1	5.138 Total Gas Lost due to transfer operations at LNG facility

Sum Total **3,201**

SDG&E June 15th, 2022

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 - 2022 June Report

Appendix 3 - Rev. 03/30/22

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		Misc.	0.0576	336.384	

Sum Total 336

SDG&E June 15th, 2022

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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.

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.

Transmission Compressor Station: Compressor and Component Fugitive Leaks:										12/31/21	01/01/21
ID	Geographic Location	Facility/Device Type	Emission Factor: Mscf/Dd/Dev	Manufacturer	Discovery Date (MM/DD/YY)	Repair Date (MM/DD/YY)	Prior Survey Date (MM/DD/YY)	Number of Days Leaking	Annual Emissions (Mscf)	Explanatory Notes / Comments	
7909507	92555	V	0.1541		3/18/2021	3/18/2021	12/8/2020	51	8	Leak >=10,000 PPM	
7885709	92555	C	0.137		3/18/2021	3/18/2021	12/8/2020	51	7	Leak >=10,000 PPM	
7885734	92555	C	0.137		3/18/2021	3/18/2021	12/8/2020	51	7	Leak >=10,000 PPM	
7885700	92555	V	0.1541		3/18/2021	4/7/2021	12/8/2020	71	11	Leak >=10,000 PPM	
7885760	92555	OT	0.1342		3/19/2021	3/19/2021	12/8/2020	52	7	Leak >=10,000 PPM	
7885707	92555	OT	0.1342		3/25/2021	3/25/2021	12/8/2020	55	7	Leak >=10,000 PPM	
7885774	92555	OT	0.1342		3/25/2021	3/25/2021	12/8/2020	55	7	Leak >=10,000 PPM	
7885740	92555	OT	0.1342		3/25/2021	3/25/2021	12/8/2020	55	7	Leak >=10,000 PPM	
7885744	92555	V	0.1541		6/14/2021	6/16/2021	3/19/2021	47	7	Leak >=10,000 PPM	
7885748	92555	OT	0.1342		6/15/2021	6/19/2021	3/19/2021	49	7	Leak >=10,000 PPM	
7885780	92555	OT	0.1342		6/15/2021	6/19/2021	3/25/2021	46	6	Leak >=10,000 PPM	
7885821	92555	OT	0.1342		8/4/2021	8/5/2021	6/15/2021	27	4	Leak >=10,000 PPM	
7885772	92555	C	0.137		8/4/2021	8/4/2021	6/16/2021	26	3	Leak >=10,000 PPM	
7885790	92555	C	0.137		8/10/2021	8/10/2021	8/4/2021	4	1	Leak >=10,000 PPM	
7885808	92555	C	0.137		8/10/2021	8/10/2021	6/14/2021	30	4	Leak >=10,000 PPM	
7885838	92555	V	0.1541		12/7/2021	12/7/2021	6/14/2021	89	14	Leak >=10,000 PPM	
7885805	92555	C	0.137		12/7/2021	12/7/2021	12/6/2021	2	0.2055	Leak >=10,000 PPM	
7885825	92555	C	0.137		12/8/2021	12/8/2021	6/16/2021	89	12	Leak >=10,000 PPM	
7885809	92555	C	0.137		12/8/2021	12/8/2021	6/15/2021	89	12	Leak >=10,000 PPM	
7885839	92555	C	0.137		12/8/2021	12/8/2021	6/16/2021	89	12	Leak >=10,000 PPM	
7886209	92555	C	0.137		3/18/2021	3/18/2021	12/8/2020	51		Leak < 10,000 ppm Included for informational Purposes Only	
7885723	92555	C	0.137		3/18/2021	4/7/2021	12/8/2020	71		Leak < 10,000 ppm Included for informational Purposes Only	
7907000	92555	V	0.1541		3/18/2021	4/7/2021	12/8/2020	71		Leak < 10,000 ppm Included for informational Purposes Only	
7906996	92555	V	0.1541		3/18/2021	3/18/2021	12/8/2020	51		Leak < 10,000 ppm Included for informational Purposes Only	
7885714	92555	C	0.137		3/18/2021	4/7/2021	12/8/2020	71		Leak < 10,000 ppm Included for informational Purposes Only	
7886226	92555	V	0.1541		3/18/2021	3/18/2021	12/8/2020	51		Leak < 10,000 ppm Included for informational Purposes Only	
7885698	92555	V	0.1541		3/18/2021	4/7/2021	12/8/2020	71		Leak < 10,000 ppm Included for informational Purposes Only	
7885702	92555	V	0.1541		3/18/2021	4/7/2021	12/8/2020	71		Leak < 10,000 ppm Included for informational Purposes Only	
7885705	92555	C	0.137		3/18/2021	3/18/2021	12/8/2020	51		Leak < 10,000 ppm Included for informational Purposes Only	
7885697	92555	C	0.137		3/18/2021	4/7/2021	12/8/2020	71		Leak < 10,000 ppm Included for informational Purposes Only	
7906997	92555	C	0.137		3/18/2021	3/18/2021	12/8/2020	51		Leak < 10,000 ppm Included for informational Purposes Only	
7885719	92555	OT	0.1342		3/19/2021	3/19/2021	12/8/2020	52		Leak < 10,000 ppm Included for informational Purposes Only	
7885749	92555	C	0.137		3/19/2021	3/19/2021	12/8/2020	52		Leak < 10,000 ppm Included for informational Purposes Only	
7885766	92555	C	0.137		3/19/2021	3/19/2021	12/8/2020	52		Leak < 10,000 ppm Included for informational Purposes Only	
7885779	92555	C	0.137		3/19/2021	3/19/2021	12/8/2020	52		Leak < 10,000 ppm Included for informational Purposes Only	
7885708	92555	C	0.137		3/19/2021	3/19/2021	12/8/2020	52		Leak < 10,000 ppm Included for informational Purposes Only	
7885711	92555	C	0.137		3/25/2021	3/26/2021	12/8/2020	56		Leak < 10,000 ppm Included for informational Purposes Only	
7885710	92555	C	0.137		3/26/2021	3/26/2021	12/8/2020	55		Leak < 10,000 ppm Included for informational Purposes Only	
7906993	92555	C	0.137		6/4/2021	6/4/2021	3/19/2021	40		Leak < 10,000 ppm Included for informational Purposes Only	
7885715	92555	C	0.137		6/4/2021	6/4/2021	3/19/2021	250		Leak < 10,000 ppm Included for informational Purposes Only	
7885727	92555	C	0.137		6/4/2021	6/4/2021	3/19/2021	250		Leak < 10,000 ppm Included for informational Purposes Only	
7885738	92555	C	0.137		6/4/2021	6/16/2021	3/19/2021	52		Leak < 10,000 ppm Included for informational Purposes Only	
7886427	92555	V	0.1541		6/14/2021	6/16/2021	6/4/2021	8		Leak < 10,000 ppm Included for informational Purposes Only	
7885732	92555	V	0.1541		6/14/2021	6/16/2021	3/19/2021	47		Leak < 10,000 ppm Included for informational Purposes Only	
7885741	92555	V	0.1541		6/14/2021	6/16/2021	3/19/2021	47		Leak < 10,000 ppm Included for informational Purposes Only	
7885750	92555	V	0.1541		6/14/2021	6/16/2021	3/19/2021	47		Leak < 10,000 ppm Included for informational Purposes Only	
7885733	92555	OT	0.1342		6/15/2021	6/19/2021	3/19/2021	49		Leak < 10,000 ppm Included for informational Purposes Only	
7885764	92555	OT	0.1342		6/15/2021	6/19/2021	3/19/2021	49		Leak < 10,000 ppm Included for informational Purposes Only	
7885762	92555	OT	0.1342		6/15/2021	6/19/2021	3/19/2021	49		Leak < 10,000 ppm Included for informational Purposes Only	
7885776	92555	OT	0.1342		6/15/2021	6/19/2021	3/19/2021	49		Leak < 10,000 ppm Included for informational Purposes Only	
7885745	92555	V	0.1541		6/16/2021	6/16/2021	3/19/2021	244		Leak < 10,000 ppm Included for informational Purposes Only	
7885737	92555	V	0.1541		6/16/2021	6/16/2021	3/19/2021	46		Leak < 10,000 ppm Included for informational Purposes Only	
7885739	92555	V	0.1541		6/16/2021	6/16/2021	3/19/2021	244		Leak < 10,000 ppm Included for informational Purposes Only	
7885754	92555	C	0.137		6/16/2021	7/20/2021	3/19/2021	80		Leak < 10,000 ppm Included for informational Purposes Only	
7885769	92555	C	0.137		6/16/2021	6/16/2021	3/19/2021	46		Leak < 10,000 ppm Included for informational Purposes Only	
7885778	92555	C	0.137		6/16/2021	6/16/2021	3/19/2021	244		Leak < 10,000 ppm Included for informational Purposes Only	
7885785	92555	OT	0.1342		7/1/2021	7/30/2021	6/4/2021	44		Leak < 10,000 ppm Included for informational Purposes Only	
7885842	92555	OT	0.1342		7/1/2021	7/30/2021	6/4/2021	44		Leak < 10,000 ppm Included for informational Purposes Only	
7885759	92555	OT	0.1342		7/7/2021	7/30/2021	6/4/2021	41		Leak < 10,000 ppm Included for informational Purposes Only	
7885831	92555	C	0.137		7/18/2021	7/30/2021	6/15/2021	30		Leak < 10,000 ppm Included for informational Purposes Only	
7885746	92555	V	0.1541		7/27/2021	7/27/2021	6/16/2021	179		Leak < 10,000 ppm Included for informational Purposes Only	
7885758	92555	C	0.137		7/27/2021	7/27/2021	6/4/2021	28		Leak < 10,000 ppm Included for informational Purposes Only	
7885813	92555	V	0.1541		7/27/2021	7/27/2021	6/4/2021	28		Leak < 10,000 ppm Included for informational Purposes Only	
7907010	92555	C	0.137		7/28/2021	7/29/2021	6/16/2021	23		Leak < 10,000 ppm Included for informational Purposes Only	
7885783	92555	OT	0.1342		8/4/2021	8/4/2021	6/15/2021	175		Leak < 10,000 ppm Included for informational Purposes Only	
7885796	92555	OT	0.1342		8/4/2021	8/4/2021	6/15/2021	175		Leak < 10,000 ppm Included for informational Purposes Only	
7885770	92555	PR	0.0482		8/5/2021	8/5/2021	6/15/2021	27		Leak < 10,000 ppm Included for informational Purposes Only	
7906992	92555	C	0.137		8/5/2021	8/19/2021	7/28/2021	19		Leak < 10,000 ppm Included for informational Purposes Only	
7885789	92555	V	0.1541		8/23/2021	8/23/2021	6/14/2021	36		Leak < 10,000 ppm Included for informational Purposes Only	
7885800	92555	V	0.1541		8/23/2021	8/23/2021	8/4/2021	11		Leak < 10,000 ppm Included for informational Purposes Only	
7885812	92555	V	0.1541		8/24/2021	9/15/2021	6/15/2021	58		Leak < 10,000 ppm Included for informational Purposes Only	
7885803	92555	OT	0.1342		8/25/2021	9/8/2021	6/16/2021	50		Leak < 10,000 ppm Included for informational Purposes Only	
7885816	92555	OT	0.1342		8/25/2021	9/8/2021	6/16/2021	50		Leak < 10,000 ppm Included for informational Purposes Only	
7885837	92555	V	0.1541		12/6/2021	12/6/2021	6/16/2021	88		Leak < 10,000 ppm Included for informational Purposes Only	
7885788	92555	OT	0.1342		12/6/2021	12/6/2021	6/15/2021	113		Leak < 10,000 ppm Included for informational Purposes Only	
7885799	92555	OT	0.1342		12/6/2021	12/6/2021	6/15/2021	113		Leak < 10,000 ppm Included for informational Purposes Only	
7885806	92555	C	0.137		12/6/2021	12/6/2021	6/14/2021	89		Leak < 10,000 ppm Included for informational Purposes Only	
7885829	92555	OT	0.1342		12/6/2021	12/6/2021	6/15/2021	113		Leak < 10,000 ppm Included for informational Purposes Only	
7885836	92555	OT	0.1342		12/6/2021	12/6/2021	8/25/2021	53		Leak < 10,000 ppm Included for informational Purposes Only	
7885801	92555	V	0.1541		12/7/2021	12/7/2021	6/14/2021	89		Leak < 10,000 ppm Included for informational Purposes Only	
7885811	92555	C	0.137		12/7/2021	12/7/2021	8/10/2021	61		Leak < 10,000 ppm Included for informational Purposes Only	
7885815	92555	C	0.137		12/7/2021	12/7/2021	6/16/2021	88		Leak < 10,000 ppm Included for informational Purposes Only	
7885820	92555	OT	0.1342		12/7/2021	12/7/2021	6/16/2021	88		Leak < 10,000 ppm Included for informational Purposes Only	
7885823	92555	V	0.1541		12/7/2021	12/7/2021	6/16/2021	112		Leak < 10,000 ppm Included for informational Purposes Only	
7885832	92555	C	0.137		12/7/2021	12/7/2021	6/16/2021	88		Leak < 10,000 ppm Included for informational Purposes Only	
7885794	92555	V	0.1541		12/7/2021	12/7/2021	6/16/2021	88		Leak < 10,000 ppm Included for informational Purposes Only	
7885819	92555	C	0.137		12/8/2021	12/9/2021	8/4/2021	65		Leak < 10,000 ppm Included for informational Purposes Only	
7885827	92555	C	0.137		12/8/2021	12/8/2021	6/15/2021	89		Leak < 10,000 ppm Included for informational Purposes Only	
7885843	92555	V	0.1541		12/8/2021	12/8/2021	6/15/2021	89		Leak < 10,000 ppm Included for informational Purposes Only	

Sum Total

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SDG&E June 15th, 2022

**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 - 2022 June Report
Appendix 3 - Rev. 03/30/22**

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 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	1/11/2021	1/11/2021	1	N/A		0.1023 LNG Tank Pressure Release Due to Temperature Fluctuation
1	2/1/2021	2/1/2021	1	N/A		0.0343 LNG Tank Pressure Release Due to Temperature Fluctuation
1	3/8/2021	3/8/2021	1	N/A		0.0320 LNG Tank Pressure Release Due to Temperature Fluctuation
1	3/19/2021	3/19/2021	1	N/A		0.0627 LNG Tank Pressure Release Due to Temperature Fluctuation
1	4/29/2021	4/29/2021	1	N/A		0.1021 LNG Tank Pressure Release Due to Temperature Fluctuation
1	9/14/2021	9/14/2021	1	N/A		0.0298 LNG Tank Pressure Release Due to Temperature Fluctuation
1	9/20/2021	9/20/2021	1	N/A		0.0192 LNG Tank Pressure Release Due to Temperature Fluctuation
1	10/29/2021	10/29/2021	1	N/A		0.0739 LNG Tank Pressure Release Due to Temperature Fluctuation
1	2/4/2021	2/4/2021	1	N/A		0.1036 LNG Tank Pressure Release Due to Temperature Fluctuation
1	2/8/2021	2/8/2021	1	N/A		0.0251 LNG Tank Pressure Release Due to Temperature Fluctuation
1	2/8/2021	2/8/2021	1	N/A		0.0924 LNG Tank Pressure Release Due to Temperature Fluctuation
1	2/9/2021	2/9/2021	1	N/A		0.2797 LNG Tank Pressure Release Due to Temperature Fluctuation
1	2/12/2021	2/12/2021	1	N/A		0.0745 LNG Tank Pressure Release Due to Temperature Fluctuation
1	3/15/2021	3/15/2021	1	N/A		0.0243 LNG Tank Pressure Release Due to Temperature Fluctuation
1	3/19/2021	3/19/2021	1	N/A		0.1535 LNG Tank Pressure Release Due to Temperature Fluctuation
1	10/29/2021	10/29/2021	1	N/A		0.1466 LNG Tank Pressure Release Due to Temperature Fluctuation
1	11/1/2021	11/1/2021	1	N/A		0.0833 LNG Tank Pressure Release Due to Temperature Fluctuation
1	11/1/2021	11/1/2021	1	N/A		0.3059 LNG Tank Pressure Release Due to Temperature Fluctuation
1	11/2/2021	11/2/2021	1	N/A		0.0789 LNG Tank Pressure Release Due to Temperature Fluctuation
1	11/5/2021	11/5/2021	1	N/A		0.3294 LNG Tank Pressure Release Due to Temperature Fluctuation
1	11/8/2021	11/8/2021	1	N/A		0.3274 LNG Tank Pressure Release Due to Temperature Fluctuation
1	11/9/2021	11/9/2021	1	N/A		0.2093 LNG Tank Pressure Release Due to Temperature Fluctuation
1	11/12/2021	11/12/2021	1	N/A		0.1727 LNG Tank Pressure Release Due to Temperature Fluctuation
1	11/12/2021	11/12/2021	1	N/A		0.2011 LNG Tank Pressure Release Due to Temperature Fluctuation
1	11/13/2021	11/13/2021	1	N/A		0.2271 LNG Tank Pressure Release Due to Temperature Fluctuation
1	11/13/2021	11/13/2021	1	N/A		0.1670 LNG Tank Pressure Release Due to Temperature Fluctuation
1	11/15/2021	11/15/2021	1	N/A		0.0215 LNG Tank Pressure Release Due to Temperature Fluctuation
1	11/15/2021	11/15/2021	1	N/A		0.0987 LNG Tank Pressure Release Due to Temperature Fluctuation
1	11/18/2021	11/18/2021	1	N/A		0.0397 LNG Tank Pressure Release Due to Temperature Fluctuation
1	12/3/2021	12/3/2021	1	N/A		0.1320 LNG Tank Pressure Release Due to Temperature Fluctuation
1	12/10/2021	12/10/2021	1	N/A		0.2033 LNG Tank Pressure Release Due to Temperature Fluctuation
1	12/15/2021	12/15/2021	1	N/A		0.2092 LNG Tank Pressure Release Due to Temperature Fluctuation
1	12/23/2021	12/23/2021	1	N/A		0.1772 LNG Tank Pressure Release Due to Temperature Fluctuation
1	12/27/2021	12/27/2021	1	N/A		0.2419 LNG Tank Pressure Release Due to Temperature Fluctuation

Header column "Comment" boxes displayed below for reference.	
Column Heading	Description and Definition of Required Contents (If not self-explanatory)
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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)	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.
Operating Mode: Depressurized Idle (hours)	
Operating Mode: Offline (Hours)	
Emission Factor: Pressurized Operating (scf/hr)	
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
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	

The Columns P through AB were added to the template and should be used for the indicated measured compressor emissions, which include Centrifugal compressors in accordance with OGR and your operating practice.

For the 2020 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 EF multiplied by the activity hours that occurred during the corresponding period. For example, if the compressor measurement was taken quarterly, then the measured EF 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 devote one row per measurement period (see example provided). In the case of a single annual measurement EF, then that EF would apply to the activity hours for each respective mode for the entire year (which is consistent with prior year reporting practice).

* If a measurement is taken after a maintenance cycle and no other measurements were taken during the remainder of the year, then use this measured EF for the activity hours occurring after the measurement date thru 12/31/xx. The activity hours prior to the maintenance of the compressor from the beginning of the year should use the previously measured EF, even if the EF was measured in the prior year.

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 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)	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	The algorithm that is used for determining the number of days leaking should conform to the following guidance: 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.] $(\text{Discovery Date} - \text{Prior Survey Date})/2$ 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.* $(\text{Repair Date} - \text{Discovery Date}), \text{ unless repair date greater than } 12/31/XX \text{ then use } 12/31/XX$ --- $\text{Days Leaking} = (\text{Repair Date} - \text{Discovery Date}) + (\text{Discovery Date} - \text{Prior Survey Date})/2 + 1$ * [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.]
Emission Factor (Mscf/day)	
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)	