

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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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	

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The emissions captured on this tab represent the emissions associated with unintentional leaks that if repaired would not be 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.

ID	Geographic Location	Facility/Device Type	Emission Factor: Mscf/day/psi	Manufacturer	Discovery Date (MM/DD/YYYY)		Repair Date (MM/DD/YYYY)		Prior Survey Date (MM/DD/YYYY)		Number of Days Leaking	Annual Emissions (Mscf)	Explanatory Notes / Comments
					12/31/22	01/01/22	12/31/22	01/01/22	12/31/22	01/01/22			
BU0280.2	92225	V	0.1541		3/7/2022		3/7/2022		11/8/2021	61	9.3		
BU0281.2	92225	V	0.1541		3/7/2022		3/7/2022		11/8/2021	61	9.3		
BU12379	92225	V	0.1541		3/9/2022		3/9/2022		11/8/2021	62	9.5		
BU12387	92225	V	0.1541		3/9/2022		3/9/2022		11/8/2021	62	9.5		
BU11042.01	92225	C	0.137		10/24/2022		10/24/2022		8/1/2022	43	5.9		
BU11054.07	92225	C	0.137		10/24/2022		10/24/2022		8/1/2022	43	5.9		
BU03053	92225	V	0.1541		10/25/2022		10/25/2022		8/1/2022	44	6.7		
BU03061.04	92225	V	0.137		10/25/2022		10/25/2022		8/1/2022	44	6.0		
BU03062	92225	V	0.1541		10/25/2022		10/25/2022		8/1/2022	44	6.7		
BU04001	92225	V	0.1541		10/26/2022		10/26/2022		8/1/2022	44	6.8		
BU0379	92225	V	0.1541		10/27/2022		10/27/2022		8/1/2022	50	7.6		
BU00972.08	92225	C	0.137		10/31/2022		10/31/2022		8/1/2022	47	6.4		
BU0113.17	92225	C	0.137		11/1/2022		11/1/2022		8/1/2022	47	6.4		
BU00695.06	92225	C	0.137		11/1/2022		11/1/2022		8/1/2022	48	6.6		
BU00696	92225	PR	0.0482		11/1/2022		11/1/2022		8/1/2022	48	2.3		
BU01041.05	92225	V	0.1541		11/1/2022		11/1/2022		8/1/2022	47	7.2		
BU12370.11	92225	C	0.137		11/8/2022		11/8/2022		8/1/2022	51	6.9		
BU12427.10	92225	V	0.1541		11/8/2022		11/8/2022		8/1/2022	51	7.8		
BU12436.01	92225	V	0.137		11/8/2022		11/8/2022		8/1/2022	51	6.9		
BU0280.11	92225	V	0.1541		11/9/2022		11/9/2022		8/1/2022	51	7.9		
BU12204	92225	OT	0.0984		11/9/2022		11/10/2022		8/1/2022	52	5.1		
BU01074.54	92225	V	0.1541		9/28/2022		10/3/2022		5/16/2022	74	11.3	Compressor component	
BU03028	92225	V	0.1541		8/1/2022		8/1/2022		5/16/2022	42	6.4		
BU03074	92225	OT	0.0984		8/1/2022		8/1/2022		5/16/2022	42	4.1		
BU03093.04	92225	C	0.137		8/1/2022		8/1/2022		5/16/2022	40	5.4		
BU03103	92225	V	0.1541		6/27/2022		6/27/2022		2/28/2022	63	8.3		
BU03505	92225	V	0.1541		8/2/2022		8/2/2022		5/16/2022	40	6.2		
BU03575.06	92225	C	0.137		8/2/2022		8/2/2022		5/16/2022	41	5.6		
BU03723.18	92225	C	0.137		8/2/2022		8/2/2022		5/16/2022	41	5.5		
BU03989	92225	V	0.1541		8/2/2022		8/2/2022		5/16/2022	40	6.2		
BU12304.05	92225	V	0.1541		8/18/2022		8/18/2022		5/16/2022	48	7.4		
BU12437.05	92225	C	0.137		8/18/2022		8/18/2022		5/16/2022	48	6.6		
BU00251	92225	V	0.1541		5/23/2022		5/23/2022		2/28/2022	78	12.2		
BU03103	92225	V	0.1541		8/1/2022		8/1/2022		5/16/2022	40	6.1		
BU03122.01	92225	C	0.137		6/27/2022		6/29/2022		2/28/2022	63	8.6		
BU03126.01	92225	C	0.137		6/27/2022		6/27/2022		2/28/2022	63	8.6		
BU03129.01	92225	C	0.137		6/27/2022		6/27/2022		2/28/2022	61	8.3		
BU03130	92225	C	0.137		6/27/2022		6/27/2022		2/28/2022	61	8.3		
BU03132	92225	C	0.137		6/27/2022		6/29/2022		2/28/2022	63	8.6		
BU03170.01	92225	OT	0.0984		6/29/2022		6/29/2022		2/28/2022	62	8.4		
BU03197.01	92225	C	0.137		6/29/2022		6/29/2022		2/28/2022	62	8.4		
BU03205	92225	V	0.1541		6/29/2022		6/29/2022		2/28/2022	62	9.5		
BU03212.01	92225	C	0.137		6/29/2022		6/29/2022		2/28/2022	62	8.4		
BU03212.01	92225	V	0.137		6/29/2022		6/29/2022		2/28/2022	62	8.4		
BU03240.03	92225	C	0.137		6/27/2022		6/29/2022		2/28/2022	63	8.6		
BU03388.03	92225	C	0.137		6/27/2022		6/28/2022		2/28/2022	62	8.4		
BU03401.03	92225	C	0.137		6/27/2022		6/28/2022		2/28/2022	62	8.4		
BU03404.03	92225	C	0.137		6/27/2022		6/28/2022		2/28/2022	62	8.4		
BU03405.03	92225	C	0.137		6/27/2022		6/28/2022		2/28/2022	62	8.4		
BU03427	92225	V	0.1541		6/27/2022		6/29/2022		2/28/2022	63	9.6		
BU03461	92225	V	0.137		6/28/2022		6/28/2022		2/28/2022	63	8.4		
BU03585	92225	V	0.1541		6/28/2022		6/28/2022		2/28/2022	61	9.4		
BU03591	92225	V	0.1541		6/28/2022		6/28/2022		2/28/2022	61	9.4		
BU03690	92225	V	0.1541		6/29/2022		6/29/2022		2/28/2022	63	9.6		
BU03286.07	92225	C	0.137		8/1/2022		8/1/2022		5/16/2022	40	5.4		
BU03766	92225	V	0.1541		6/29/2022		6/29/2022		2/28/2022	62	9.5		
BU03811	92225	V	0.1541		6/29/2022		6/29/2022		2/28/2022	62	9.5		
BU03813	92225	PR	0.0482		6/29/2022		6/29/2022		2/28/2022	62	3.1		
BU03814	92225	V	0.1541		6/29/2022		6/29/2022		2/28/2022	62	9.5		
BU03896	92225	V	0.1541		6/28/2022		6/28/2022		2/28/2022	61	9.4		
BU03901	92225	V	0.1541		6/28/2022		6/28/2022		2/28/2022	61	9.4		
BU03929	92225	OT	0.0984		6/28/2022		6/29/2022		2/28/2022	62	6.1		
BU04002	92225	V	0.1541		6/28/2022		6/28/2022		2/28/2022	61	9.4		
BU04025.01	92225	C	0.137		6/28/2022		6/28/2022		2/28/2022	61	8.4		
BU04055	92225	V	0.1541		6/28/2022		6/29/2022		2/28/2022	61	9.6		
BU12306.03	92225	V	0.1541		5/25/2022		5/25/2022		2/28/2022	44	6.8		
7993344	92225	V	0.1541		5/23/2022		5/23/2022		2/28/2022	43	6.0		
7993351	92225	OT	0.0984		5/16/2022		5/17/2022		2/28/2022	41	4.6		
7993369	92225	V	0.1541		5/23/2022		5/23/2022		2/28/2022	43	6.6		
7993382	92225	V	0.1541		5/23/2022		5/23/2022		2/28/2022	43	6.6		
8273522	92225	OT	0.0984		8/16/2022		8/17/2022		5/16/2022	48	4.7	Compressor component	
8273554	92225	PR	0.0482		8/17/2022		8/17/2022		5/16/2022	48	2.3		
8273575	92225	V	0.1541		8/17/2022		8/18/2022		5/16/2022	49	7.5		
8273603	92225	V	0.1541		9/28/2022		9/28/2022		5/16/2022	69	10.6		
8273625	92225	PR	0.0482		8/17/2022		8/17/2022		5/16/2022	48	2.3		
8274664	92225	OT	0.0984		3/1/2022		3/1/2022		11/8/2021	58	7.7		
8274665	92225	V	0.1541		3/1/2022		3/1/2022		11/8/2021	58	8.9		
8274667	92225	V	0.1541		3/1/2022		3/1/2022		11/8/2021	58	8.9		
8274755	92225	OT	0.0984		3/8/2022		3/8/2022		11/8/2021	58	9.0	Compressor component	
8274775	92225	C	0.137		3/1/2022		3/1/2022		11/8/2021	58	7.9		
8274793	92225	OT	0.0984		10/31/2022		10/31/2022		8/1/2022	47	4.6		
8274809	92225	C	0.137		10/31/2022		10/31/2022		8/1/2022	47	6.4		
8274848	92225	C	0.137		10/31/2022		10/31/2022		8/1/2022	47	6.4		
8274892	92225	V	0.1541		11/7/2022		11/7/2022		8/1/2022	50	7.7		
8275025	92225	C	0.137		11/8/2022		11/8/2022		8/1/2022	51	6.9		
8275029	92225	V	0.1541		11/9/2022		11/9/2022		8/1/2022	51	7.9		
AD01352	92301	OT	0.0984		6/1/2022		6/1/2022		3/14/2022	46	4.5		
AD01380	92301	V	0.1541		11/22/2022		2/21/2023		9/26/2022	69	10.6		
KS01504	92301	C	0.137		11/22/2022		11/22/2022		9/26/2022	30	4.0		
KS01808.03	92351	C	0.137		7/20/2022		7/20/2022		4/18/2022	44	6.5		
KS01204	92351	V	0.1541		1/19/2022		1/19/2022		10/26/2021	44	6.8		
KS01209.02	92351	C	0.137		1/20/2022		1/20/2022		10/26/2021	45	6.1		
KS01209.04	92351	C	0.137		1/19/2022		1/20/2022		10/26/2021	45	6.1		
KS01349.49	92351	C	0.137		4/19/2022		4/19/2022		1/18/2022	47	6.4		
KS01808.14	92351	OT	0.0984		1/20/2022		1/21/2022		10/26/2021	45	4.4		
KS13399.08	92351	C	0.137		10/10/2022		10/10/2022		7/20/2022	42	5.8		
7993241	92351	V	0.1541		4/20/2022		4/20/2022		1/18/2022	47	6.4		
7993262	92351	OT	0.0984		4/19/2022		4/20/2022		1/18/2022	48	4.7		
8273742	92351	V	0.1541		7/20/2022		7/20/2022		4/19/2022	47	7.2		
8273743	92351	C	0.137		7/20/2022		7/20/2022		4/19/2022	47	6.4		
8275077	92351	V	0.1541		10								

N501580	92365	PR	0.0482	6/7/2022	6/7/2022	2/22/2022	54	2.6	
N501864.86	92365	C	0.137	8/30/2022	9/30/2022	6/6/2022	65	8.8	
N501873.29	92365	OT	0.137	11/28/2022	11/28/2022	8/29/2022	59	6.8	
N501888	92365	C	0.0984	6/6/2022	6/7/2022	2/22/2022	54	5.3	Compressor component
N501888.19	92365	V	0.1541	11/28/2022	11/29/2022	8/29/2022	48	7.3	
N501889.01	92365	V	0.1541	11/28/2022	11/29/2022	8/29/2022	48	6.5	
N501889.05	92365	C	0.1541	8/31/2022	10/6/2022	6/6/2022	80	12.3	
N501892.16	92365	OT	0.0984	11/28/2022	12/1/2022	8/29/2022	50	4.9	Compressor component
N501893.05	92365	V	0.1541	11/29/2022	11/29/2022	8/29/2022	47	7.2	
N502101.01	92365	V	0.1541	11/20/2022	11/21/2022	8/29/2022	47	7.5	
N512478.01	92365	C	0.137	6/9/2022	6/9/2022	2/22/2022	55	7.5	
N512478.02	92365	C	0.137	6/9/2022	6/9/2022	2/22/2022	55	7.5	
N512485.07	92365	C	0.137	6/9/2022	6/9/2022	2/22/2022	55	7.5	
N512592.07	92365	OT	0.0984	8/29/2022	9/30/2022	6/6/2022	64	6.4	
N512603.06	92365	OT	0.0984	11/29/2022	11/29/2022	8/29/2022	47	4.6	
N512604	92365	OT	0.0984	8/29/2022	9/15/2022	6/6/2022	60	5.9	
N513380.24	92365	OT	0.0984	11/28/2022	9/6/2022	8/29/2022	80	7.8	Compressor component
N513380.40	92365	OT	0.0984	11/28/2022	9/6/2022	8/29/2022	80	7.8	Compressor component
N513382	92365	OT	0.0984	11/28/2022	10/11/2023	8/29/2022	80	7.8	Compressor component
BU03286.07	92225	C	0.137	6/27/2022	6/29/2022	2/28/2022	63	8.6	
BU03320.07	92225	V	0.137	10/25/2022	10/27/2022	8/1/2022	46	6.2	
BU03320.07	92225	C	0.137	6/27/2022	6/28/2022	2/28/2022	62	8.4	
BU03424.03	92225	C	0.137	8/1/2022	8/2/2022	5/16/2022	41	5.5	
BU03424.03	92225	C	0.137	6/27/2022	6/29/2022	2/28/2022	63	8.6	
N513382.32	92365	OT	0.0984	11/28/2022	10/11/2023	8/29/2022	80	7.8	Compressor component
BU0427.03	92225	C	0.137	8/1/2022	8/2/2022	5/16/2022	41	5.5	
7914367	92365	C	0.137	3/23/2022	3/23/2022	2/22/2022	16	2.1	
7914378	92365	OT	0.0984	3/23/2022	3/23/2022	2/22/2022	17	1.6	
WR02392	92303	OT	0.0984	1/31/2022	1/31/2022	10/4/2021	61	6.0	
WR01388.34	92303	V	0.1541	12/6/2022	12/6/2022	8/30/2022	50	7.7	
WR01942	92303	V	0.1541	2/1/2022	2/1/2022	10/4/2021	61	9.4	
WR01953.28	92303	V	0.1541	2/1/2022	2/1/2022	10/4/2021	63	8.6	
WR02222.18	92303	C	0.137	3/21/2022	3/21/2022	10/4/2021	85	11.6	
BU03427.03	92225	C	0.137	6/27/2022	6/29/2022	2/28/2022	63	8.6	
7993421	92303	C	0.137	5/4/2022	5/4/2022	1/31/2022	61	6.4	Compressor component
7993406	92303	OT	0.0984	5/4/2022	11/16/2022	1/31/2022	244	24.0	
VT01443.15	93001	OT	0.0984	2/8/2022	2/8/2022	10/11/2021	61	6.0	
7993342	93001	V	0.1541	3/7/2022	3/7/2022	10/11/2021	75	11.5	
7993341	93001	V	0.1541	3/7/2022	3/7/2022	10/11/2021	75	11.5	
7993371	93001	V	0.1541	5/2/2022	5/2/2022	1/5/2022	60	9.2	
7993359	93001	V	0.1541	3/21/2022	3/21/2022	10/11/2021	82	12.6	
7993310	93001	V	0.1541	3/14/2022	3/15/2022	10/11/2021	79	12.2	
7993347	93001	V	0.1541	3/7/2022	3/7/2022	10/11/2021	75	11.5	
BU1062.09	92225	C	0.137	2/28/2022	2/28/2022	11/8/2021	57	7.8	
BU0076	92225	V	0.1541	2/28/2022	2/28/2022	11/8/2021	57	8.8	
BU0076.12	92225	V	0.137	3/1/2022	3/1/2022	11/8/2021	58	7.6	
BU00858.09	92225	C	0.137	3/7/2022	3/7/2022	11/8/2021	61	8.3	
BU00445.05	92225	C	0.137	3/9/2022	3/9/2022	11/8/2021	62	8.5	
BU12331.19	92225	C	0.137	3/9/2022	3/9/2022	11/8/2021	62	8.5	
BU12393	92225	V	0.1541	3/9/2022	3/9/2022	11/8/2021	62	9.5	
BU12424	92225	V	0.1541	3/9/2022	3/9/2022	11/8/2021	62	9.5	
BU12434	92225	V	0.1541	3/9/2022	3/9/2022	11/8/2021	62	9.5	
BU03032.02	92225	V	0.1541	10/24/2022	10/24/2022	8/1/2022	43	5.9	
BU03093	92225	PR	0.0482	10/24/2022	10/24/2022	8/1/2022	43	2.1	
BU11067	92225	V	0.1541	10/24/2022	10/24/2022	8/1/2022	43	5.9	
BU11074	92225	C	0.137	10/24/2022	10/24/2022	8/1/2022	43	6.6	
BU11075	92225	V	0.137	10/24/2022	10/24/2022	8/1/2022	43	5.9	
BU11077	92225	C	0.137	10/24/2022	10/24/2022	8/1/2022	43	5.9	
BU03061	92225	OT	0.0984	10/25/2022	10/25/2022	8/1/2022	44	4.3	
BU03283	92225	C	0.137	10/25/2022	10/25/2022	8/1/2022	44	6.7	
BU03290.02	92225	C	0.137	10/25/2022	10/25/2022	8/1/2022	44	6.0	
BU03723	92225	PR	0.0482	6/29/2022	6/29/2022	2/28/2022	62	3.0	
BU03723	92225	OT	0.0984	10/26/2022	10/26/2022	8/1/2022	44	4.3	
BU03812	92225	OT	0.0984	10/26/2022	10/26/2022	8/1/2022	44	6.8	
BU03813	92225	OT	0.0984	10/26/2022	10/26/2022	8/1/2022	44	4.3	
BU00961.09	92225	C	0.137	10/31/2022	11/1/2022	8/1/2022	48	6.5	
BU01012	92225	PR	0.0482	11/1/2022	11/1/2022	8/1/2022	48	2.3	
BU01037	92225	V	0.1541	11/1/2022	11/2/2022	8/1/2022	48	7.4	
BU01040.05	92225	OT	0.0984	11/1/2022	11/2/2022	8/1/2022	48	7.4	
BU01041	92225	V	0.1541	11/1/2022	11/2/2022	8/1/2022	48	7.4	
BU01041.01	92225	V	0.137	11/1/2022	11/2/2022	8/1/2022	48	6.2	
BU00758.08	92225	C	0.137	11/7/2022	11/7/2022	8/1/2022	50	6.9	
BU00760	92225	V	0.1541	11/7/2022	11/7/2022	8/1/2022	50	7.7	
BU12358.11	92225	V	0.137	11/8/2022	11/8/2022	8/1/2022	51	6.9	
BU12413	92225	V	0.1541	11/8/2022	11/8/2022	8/1/2022	51	7.8	
BU12434	92225	V	0.1541	11/8/2022	11/8/2022	8/1/2022	51	7.8	
BU00266	92225	V	0.1541	11/9/2022	11/9/2022	8/1/2022	51	7.9	
BU00279.08	92225	V	0.137	11/9/2022	11/9/2022	8/1/2022	51	7.9	
BU12210	92225	OT	0.0984	11/9/2022	11/10/2022	8/1/2022	52	7.0	Compressor component
BU12213	92225	OT	0.0984	11/9/2022	11/10/2022	8/1/2022	52	5.1	Compressor component
BU00851.02	92225	C	0.137	8/1/2022	8/1/2022	5/16/2022	40	5.4	
BU00264.15	92225	C	0.137	8/17/2022	8/17/2022	5/16/2022	48	6.5	
BU00496.25	92225	OT	0.0984	9/28/2022	9/28/2022	5/16/2022	69	6.7	
BU00966.07	92225	C	0.137	8/16/2022	8/17/2022	5/16/2022	48	6.6	
BU00760.10	92225	C	0.137	8/16/2022	8/16/2022	5/16/2022	48	6.7	
BU01041.18	92225	C	0.137	8/10/2022	8/11/2022	5/16/2022	45	6.2	
BU03073.02	92225	C	0.137	8/1/2022	8/1/2022	5/16/2022	40	5.4	
BU03093	92225	PR	0.0482	8/1/2022	8/1/2022	5/16/2022	42	2.0	
BU12358.11	92225	V	0.137	8/18/2022	8/18/2022	5/16/2022	48	6.6	
BU03111.01	92225	OT	0.0984	8/3/2022	8/3/2022	5/16/2022	42	4.1	
BU03181	92225	OT	0.0984	8/3/2022	8/3/2022	5/16/2022	42	4.1	
BU03190	92225	OT	0.0984	8/3/2022	8/3/2022	5/16/2022	42	4.1	
N513382.08	92365	OT	0.0984	8/31/2022	9/27/2022	6/6/2022	71	7.0	Compressor component
N513382.08	92365	OT	0.0984	11/28/2022	10/11/2023	8/29/2022	80	7.8	Compressor component
BU03519	92225	OT	0.0984	8/2/2022	8/2/2022	5/16/2022	40	3.9	
BU03561	92225	V	0.1541	8/2/2022	8/2/2022	5/16/2022	40	6.2	
BU03737.01	92225	C	0.137	8/3/2022	8/3/2022	5/16/2022	41	5.5	
BU03739.01	92225	C	0.137	8/3/2022	8/3/2022	5/16/2022	41	5.5	
BU03778	92225	V	0.1541	8/3/2022	8/3/2022	5/16/2022	41	6.2	
BU03813	92225	C	0.137	8/3/2022	8/3/2022	5/16/2022	41	5.5	
N513382.16	92365	OT	0.0984	11/28/2022	10/11/2023	8/29/2022	80	7.8	Compressor component
BU12434	92225	V	0.1541	8/18/2022	8/18/2022	5/16/2022	48	7.4	
BU1386.06	92225	V	0.137	6/29/2022	6/29/2022	5/16/2022	79	10.0	
BU1321.05	92225	C	0.137	6/29/2022	8/17/2022	5/16/2022	72	9.9	
BU1342.03	92225	C	0.137	6/27/2022	6/29/2022	5/16/2022	24	3.3	
BU1359.03	92225	C	0.137	6/27/2022	6/29/2022	5/16/2022	24	3.3	
BU00710.06	92225	V	0.1541	5/23/2022	5/23/2022	2/28/2022	79	11.2	
BU00271	92225	V	0.1541	5/23/2022	5/23/2022	2/28/2022	43	6.6	
BU00272	92225	OT	0.0984	5/23/2022	5/23/2022	2/28/2022	43	6.2	
BU00275	92225	OT	0.0984	5/23/2022	5/23/2022	2/28/2022	43	4.2	
BU00722.5	92225	OT	0.0984	5/17/2022	5/19/2022	2/28/2022	42	4.1	
BU03007	92225	C	0.137	6/27/2022	6/27/2022	2/28/2022	61	8.3	
BU03024.01	92225	C	0.137	6/27/2022	6/27/2022	2/28/2022	61	8.3	
BU03093	92225	PR	0.0482	6/27/2022	6/28/2022	2/28/2022	62	3.0	
BU03168.01	92225	C	0.137	6/29/2022	6/29/2022	2/28/2022	62	8.4	
BU03173.01	92225	C	0.137	6/29/2022	6/29/2022	2/28/2022	62	8.4	
BU03183	92225	V	0.1541	6/29/2022	6/29/2022	2/28/2022	62	9.5	
BU03192	92225	V	0.1541	6/29/2022	6/29/2022	2/28/2022	62	9.5	

7993420	92225	V	0.1541	5/23/2022	5/23/2022	2/28/2022	43	6.6	
7993422	92225	V	0.1541	5/23/2022	5/23/2022	2/28/2022	43	6.6	
8273414	92225	V	0.1541	8/10/2022	8/10/2022	5/16/2022	45	6.8	
8273421	92225	V	0.1541	8/10/2022	8/10/2022	5/16/2022	44	6.8	
8273422	92225	C	0.137	8/16/2022	8/18/2022	5/16/2022	49	6.7	
8273462	92225	PR	0.0482	8/17/2022	8/17/2022	5/16/2022	48	6.7	
8273471	92225	CR	0.0482	8/16/2022	8/17/2022	5/16/2022	48	2.3	
8273492	92225	C	0.137	8/10/2022	8/11/2022	5/16/2022	45	6.2	
8273493	92225	C	0.137	8/16/2022	8/17/2022	5/16/2022	48	6.6	
8273541	92225	C	0.137	8/10/2022	8/10/2022	5/16/2022	45	6.2	
8273553	92225	V	0.1541	8/17/2022	8/17/2022	5/16/2022	48	7.3	
8273557	92225	C	0.137	8/16/2022	8/18/2022	5/16/2022	49	6.7	
8273559	92225	C	0.137	8/16/2022	8/17/2022	5/16/2022	48	6.6	
8273560	92225	C	0.137	8/10/2022	8/10/2022	5/16/2022	45	6.2	
8273561	92225	C	0.137	8/17/2022	8/17/2022	5/16/2022	48	6.5	
8273568	92225	C	0.137	8/10/2022	8/11/2022	5/16/2022	45	6.2	
8273577	92225	C	0.137	8/16/2022	8/16/2022	5/16/2022	48	6.7	
8273581	92225	V	0.1541	8/10/2022	8/11/2022	5/16/2022	45	6.9	
8273589	92225	C	0.137	8/17/2022	8/17/2022	5/16/2022	48	6.5	
8273611	92225	C	0.137	8/16/2022	8/17/2022	5/16/2022	48	6.6	
8273619	92225	C	0.137	8/17/2022	8/17/2022	5/16/2022	48	6.5	
8273623	92225	PR	0.0482	8/17/2022	8/17/2022	5/16/2022	48	2.3	
8273626	92225	PR	0.0482	8/17/2022	8/18/2022	5/16/2022	49	2.3	
8273628	92225	OT	0.0984	9/28/2022	9/28/2022	5/16/2022	69	6.7	
8273629	92225	PR	0.0482	8/17/2022	8/17/2022	5/16/2022	48	2.3	
8274670	92225	C	0.137	2/28/2022	2/28/2022	11/8/2021	57	7.8	
8274671	92225	C	0.137	2/28/2022	3/1/2022	11/8/2021	58	7.9	
8274675	92225	V	0.1541	2/28/2022	2/28/2022	11/8/2021	57	8.8	
8274720	92225	C	0.137	3/7/2022	3/8/2022	11/8/2021	62	8.4	
8274735	92225	OT	0.0984	3/2/2022	3/2/2022	11/8/2021	58	5.7	
8274744	92225	C	0.137	3/1/2022	3/1/2022	11/8/2021	58	7.9	
8274753	92225	V	0.1541	3/1/2022	3/1/2022	11/8/2021	58	8.9	
8274763	92225	V	0.1541	3/7/2022	3/7/2022	11/8/2021	61	8.4	
8274786	92225	C	0.137	3/7/2022	3/8/2022	11/8/2021	62	9.3	
8274819	92225	V	0.1541	3/7/2022	3/7/2022	11/8/2021	61	9.1	
8274866	92225	V	0.1541	11/7/2022	11/7/2022	8/1/2022	50	7.7	
8274914	92225	OT	0.0984	11/7/2022	11/8/2022	8/1/2022	51	5.0	
8274917	92225	C	0.137	10/31/2022	10/31/2022	8/1/2022	47	6.4	
8274919	92225	V	0.1541	11/7/2022	11/7/2022	8/1/2022	48	6.6	
8274924	92225	V	0.1541	11/7/2022	11/7/2022	8/1/2022	50	7.7	
8274962	92225	V	0.1541	11/1/2022	11/1/2022	8/1/2022	47	7.2	
8274998	92225	C	0.137	11/7/2022	11/7/2022	8/1/2022	48	6.6	
8275005	92225	C	0.137	11/7/2022	11/7/2022	8/1/2022	48	6.6	
8275028	92225	PR	0.0482	11/7/2022	11/8/2022	8/1/2022	51	2.5	
AD01612.14	92301	V	0.1541	3/14/2022	3/14/2022	11/22/2021	57	8.8	
AD01359.02	92301	V	0.1541	3/15/2022	3/15/2022	11/22/2021	58	8.9	
AD01359.11	92301	C	0.137	3/15/2022	3/15/2022	11/22/2021	58	7.9	
AD01619.56	92301	C	0.137	11/21/2022	11/21/2022	9/26/2022	29	4.0	
AD01903.09	92301	V	0.1541	3/15/2022	3/15/2022	11/22/2021	58	8.9	
AD01903.10	92301	V	0.1541	3/15/2022	3/15/2022	11/22/2021	58	8.9	
AD13208	92301	C	0.137	3/14/2022	3/14/2022	11/22/2021	57	7.8	
AD13282	92301	C	0.137	3/14/2022	3/14/2022	11/22/2021	57	7.8	
AD1901.05	92301	C	0.137	11/21/2022	11/21/2022	9/26/2022	29	4.0	
8275089	92301	C	0.137	3/14/2022	3/14/2022	11/22/2021	57	7.8	
8275086	92301	C	0.137	3/15/2022	3/15/2022	11/22/2021	58	7.9	
8275132	92301	V	0.1541	11/21/2022	11/21/2022	9/26/2022	29	4.5	
8275135	92301	V	0.1541	11/21/2022	11/20/2022	9/26/2022	69	10.6	
8275167	92301	C	0.137	3/14/2022	3/14/2022	11/22/2021	57	7.8	
8275169	92301	V	0.1541	9/26/2022	8/28/2023	5/31/2022	156	24.0	
8275170	92301	V	0.1541	9/26/2022	8/28/2023	5/31/2022	156	24.0	
8275134	92301	C	0.137	3/14/2022	3/14/2022	11/22/2021	57	7.8	
8275142	92301	C	0.137	6/1/2022	6/8/2022	3/14/2022	48	6.5	
799373	92301	V	0.1541	5/31/2022	8/28/2023	3/14/2022	254	39.1	
8275109	92301	V	0.1541	11/21/2022	11/20/2022	9/26/2022	29	4.6	
8275154	92301	V	0.1541	9/26/2022	8/28/2023	5/31/2022	156	24.0	
8275113	92301	V	0.1541	11/21/2022	11/21/2022	9/26/2022	29	4.5	
8275172	92301	C	0.137	3/14/2022	3/14/2022	11/22/2021	57	7.8	
8275162	92301	C	0.137	3/14/2022	3/14/2022	11/22/2021	57	7.8	
7993883	92301	V	0.1541	5/31/2022	8/28/2023	3/14/2022	40	6.0	
K501204.04	92301	C	0.137	1/18/2022	1/19/2022	10/26/2021	44	6.2	
K50107.11	92301	V	0.1541	1/20/2022	1/20/2022	10/26/2021	44	6.2	
K501816	92351	PR	0.0482	1/19/2022	1/19/2022	10/26/2021	44	2.1	
8275081	92351	V	0.1541	10/10/2022	10/10/2022	7/20/2022	42	6.5	
7993236	92351	V	0.1541	4/19/2022	4/19/2022	1/18/2022	383	48.4	
7993238	92351	V	0.1541	4/19/2022	4/20/2022	1/18/2022	48	7.3	
7993239	92351	OT	0.0984	4/19/2022	10/20/2022	1/18/2022	231	22.7	
7993286	92351	C	0.137	4/19/2022	4/19/2022	1/18/2022	47	6.4	
7993288	92351	V	0.1541	4/19/2022	4/20/2022	1/18/2022	48	6.6	
7993289	92351	OT	0.0984	4/19/2022	4/20/2022	1/18/2022	48	4.7	
8273741	92351	V	0.1541	7/20/2022	7/20/2022	4/19/2022	47	7.2	
8273744	92351	V	0.1541	7/20/2022	4/24/2023	4/19/2022	211	32.5	
8275057	92351	V	0.1541	1/19/2022	1/19/2022	10/26/2021	44	6.7	
8275059	92351	C	0.137	1/19/2022	1/19/2022	10/26/2021	44	6.0	
8275079	92351	C	0.137	10/12/2022	10/13/2022	7/20/2022	44	6.0	
NN00530	92363	OT	0.0984	1/26/2022	1/27/2022	11/1/2021	45	4.4	Compressor component
NN00529	92363	OT	0.0984	1/26/2022	1/27/2022	11/1/2021	45	4.4	Compressor component
NN00183	92363	V	0.1541	7/26/2022	7/26/2022	4/26/2022	47	7.2	
NN00507.44	92363	C	0.137	7/27/2022	7/27/2022	4/26/2022	47	6.4	
NN00508.07	92363	V	0.1541	7/27/2022	7/27/2022	4/26/2022	47	6.4	
NN00508.08	92363	V	0.1541	7/27/2022	7/27/2022	4/26/2022	47	7.2	
NN00527.13	92363	V	0.1541	7/26/2022	7/26/2022	4/26/2022	47	7.2	
NN00534.54	92363	V	0.1541	7/26/2022	7/26/2022	4/26/2022	47	7.2	
NN00537	92363	OT	0.0984	7/26/2022	7/26/2022	4/26/2022	47	4.6	Compressor component
NN00555.06	92363	C	0.137	10/19/2022	10/20/2022	7/25/2022	45	6.2	
NN00624.24	92363	V	0.1541	4/26/2022	4/26/2022	1/25/2022	47	7.2	
NN00648	92363	PR	0.0482	1/25/2022	1/25/2022	11/1/2021	44	2.2	
NN01077.23	92363	C	0.137	1/25/2022	1/25/2022	11/1/2021	44	4.0	
NN01085.07	92363	OT	0.0984	1/25/2022	1/25/2022	11/1/2021	44	6.3	
NN01090	92363	V	0.1541	7/25/2022	7/25/2022	4/26/2022	48	7.4	
NN01099	92363	OT	0.0984	1/25/2022	1/25/2022	11/1/2021	44	4.3	
NN02068	92363	V	0.1541	10/18/2022	10/18/2022	7/25/2022	44	6.7	
NN11034.01	92363	C	0.137	10/18/2022	10/18/2022	7/25/2022	44	6.0	
NN11036.09	92363	C	0.137	10/18/2022	10/18/2022	7/25/2022	44	6.0	
NN12644.06	92363	OT	0.0984	10/17/2022	10/17/2022	7/25/2022	43	4.2	
8275854	92363	OT	0.0984	10/19/2022	10/20/2022	7/25/2022	45	4.4	
8275845	92363	V	0.1541	10/17/2022	10/17/2022	7/25/2022	43	6.6	Compressor component
8275886	92363	V	0.1541	10/18/2022	10/18/2022	7/25/2022	44	6.7	
8275934	92363	V	0.1541	1/25/2022	1/25/2022	11/1/2021	44	4.3	
8275949	92363	OT	0.0984	1/25/2022	1/25/2022	11/1/2021	44	6.7	
8275861	92363	V	0.1541	1/25/2022	1/25/2022	11/1/2021	44	6.7	
8275999	92363	OT	0.0984	1/25/2022	1/25/2022	11/1/2021	44	4.3	
8275814	92363	V	0.1541	1/26/2022	1/26/2022	11/1/2021	44	6.8	
8275826	92363	C	0.137	1/26/2022	1/26/2022	11/1/2021	44	6.0	
8275959	92363	V	0.137	7/27/2022	7/27/2022	4/26/2022	47	6.4	
8275900	92363	C	0.1342	10/18/2022	10/19/2022	7/25/2022	44	6.4	Compressor component
8275889	92363	OT	0.0984	10/19/2022	10/19/2022	7/25/2022	44	4.3	Compressor component
8275954	92363	V	0.1541	10/18/2022	10/18/2022	7/25/2022	44	6.7	
8275953	92363	C	0.137	1/26/2022	1/27/2022	11/1/2021	45	6.2	
8275806									

N501270.29	92365	OT	0.0984	6/8/2022	6/9/2022	2/22/2022	55	5.4	
N501284.14	92365	C	0.137	6/8/2022	6/13/2022	2/22/2022	59	8.1	
N501302.05	92365	C	0.137	3/23/2022	3/23/2022	11/29/2021	58	7.9	
N501527.30	92365	C	0.137	11/30/2022	11/30/2022	8/29/2022	48	6.5	
N501533	92365	V	0.1541	3/22/2022	3/23/2022	11/29/2021	59	9.0	
N501548	92365	V	0.1541	8/31/2022	8/31/2022	6/6/2022	44	6.8	
N501569	92365	V	0.1541	3/22/2022	3/22/2022	11/29/2021	58	8.9	
N501589.14	92365	OT	0.0984	11/30/2022	11/30/2022	8/29/2022	48	4.7	
N501589.15	92365	C	0.137	3/22/2022	3/22/2022	11/29/2021	58	7.9	
N501589.16	92365	C	0.137	3/22/2022	3/22/2022	11/29/2021	59	8.0	
N501746.07	92365	V	0.1541	11/29/2022	11/29/2022	8/29/2022	47	7.2	
N501749	92365	OT	0.0984	8/29/2022	9/20/2022	6/6/2022	65	6.4	
N501749.02	92365	C	0.137	11/29/2022	11/29/2022	8/29/2022	47	6.4	
N501749.03	92365	V	0.1541	11/29/2022	11/29/2022	8/29/2022	47	7.2	
N501757.03	92365	OT	0.0984	8/29/2022	8/29/2022	6/6/2022	43	4.2	
N501831.11	92365	C	0.137	2/22/2022	2/22/2022	11/29/2021	44	6.0	
N501833.43	92365	C	0.137	11/29/2022	11/29/2022	8/29/2022	48	6.5	
N501847	92365	C	0.137	6/8/2022	6/9/2022	2/22/2022	55	7.5	
N501863.19	92365	V	0.1541	8/30/2022	9/15/2022	6/6/2022	60	9.2	
N501864.14	92365	V	0.1541	8/30/2022	9/30/2022	6/6/2022	65	9.9	
N501865	92365	OT	0.0984	8/30/2022	9/30/2022	6/6/2022	65	6.3	
N501865.19	92365	V	0.1541	8/30/2022	9/15/2022	6/6/2022	60	9.2	
N501865.30	92365	V	0.1541	8/30/2022	9/15/2022	6/6/2022	60	9.2	
N501872.32	92365	OT	0.0984	2/22/2022	2/22/2022	11/29/2021	44	4.3	
N501872.40	92365	OT	0.0984	2/22/2022	2/22/2022	11/29/2021	44	4.3	
N501873.06	92365	C	0.137	11/28/2022	12/1/2022	8/29/2022	50	6.8	
N501873.09	92365	C	0.137	11/28/2022	12/1/2022	8/29/2022	50	6.8	
N501873.49	92365	C	0.137	11/28/2022	12/1/2022	8/29/2022	50	6.8	
N501875.05	92365	V	0.1541	11/28/2022	12/1/2022	8/29/2022	50	7.6	
N501888.84	92365	OT	0.0984	8/31/2022	10/6/2022	6/6/2022	80	7.9	
N501890	92365	OT	0.0984	6/6/2022	6/9/2022	2/22/2022	56	5.5	
N501890.20	92365	C	0.137	11/28/2022	11/29/2022	8/29/2022	48	6.5	
N501891.63	92365	C	0.137	11/28/2022	12/1/2022	8/29/2022	50	6.8	
N501894.05	92365	V	0.1541	11/28/2022	11/29/2022	8/29/2022	48	7.3	
N501895.05	92365	OT	0.0984	11/28/2022	11/29/2022	8/29/2022	48	7.3	
N512474	92365	C	0.137	8/29/2022	8/29/2022	6/6/2022	43	5.9	
N512475	92365	C	0.137	8/29/2022	8/29/2022	6/6/2022	43	5.9	
N512502.09	92365	C	0.137	8/29/2022	8/29/2022	6/6/2022	43	5.9	
N512607.05	92365	OT	0.0984	8/29/2022	8/29/2022	6/6/2022	60	5.9	
N512609	92365	C	0.137	8/29/2022	8/29/2022	6/6/2022	43	5.9	
N512617	92365	OT	0.0984	8/29/2022	9/15/2022	6/6/2022	60	5.9	
N512623	92365	OT	0.0984	3/23/2022	3/23/2022	11/29/2021	58	5.7	
N513380	92365	OT	0.0984	11/28/2022	10/11/2023	8/29/2022	78	7.8	Compressor component
N513382.40	92365	OT	0.0984	8/31/2022	9/27/2022	6/6/2022	71	7.0	Compressor component
WR13194	92303	OT	0.0984	9/13/2022	9/13/2022	5/2/2022	68	6.6	
N513383.09	92365	V	0.1541	11/28/2022	11/29/2022	8/29/2022	47	7.2	
N513388.05	92365	C	0.137	11/30/2022	11/30/2022	8/29/2022	48	6.5	
7914368	92365	C	0.137	3/23/2022	3/23/2022	2/22/2022	16	2.1	
7914365	92365	C	0.137	3/23/2022	3/23/2022	2/22/2022	16	2.1	
7914366	92365	C	0.137	3/23/2022	3/23/2022	2/22/2022	16	2.1	
WR02394.01	92303	C	0.137	1/31/2022	1/31/2022	10/4/2021	61	8.3	
WR01402.24	92303	V	0.1541	9/27/2022	9/27/2022	5/2/2021	258	39.7	
WR01417.01	92303	C	0.137	9/14/2022	9/15/2022	5/2/2021	70	9.5	
WR01972.03	92303	C	0.137	2/1/2022	2/3/2022	10/4/2021	63	8.6	
WR01973.06	92303	V	0.1541	2/1/2022	6/14/2022	10/4/2021	194	29.9	
WR02242.03	92303	C	0.137	9/14/2022	9/14/2022	5/2/2021	251	34.4	
WR02246.03	92303	C	0.137	9/14/2022	9/14/2022	5/2/2021	251	34.4	
WR13194	92303	OT	0.0984	5/3/2022	5/3/2022	1/31/2022	47	4.6	
7993408	92303	OT	0.0984	5/3/2022	5/3/2022	1/31/2022	47	4.6	Compressor component
7993419	92303	V	0.1541	5/2/2022	5/2/2022	1/31/2022	47	7.2	
7993417	92303	OT	0.0984	5/3/2022	5/3/2022	1/31/2022	47	4.6	Compressor component
7993410	92303	OT	0.0984	5/3/2022	5/3/2022	1/31/2022	47	4.6	
7993397	92303	OT	0.0984	5/3/2022	5/3/2022	1/31/2022	47	4.6	
7993415	92303	V	0.1541	5/2/2022	5/2/2022	1/31/2022	47	7.2	
7993418	92303	PR	0.0482	5/2/2022	5/5/2022	1/31/2022	50	2.4	
VT01452.04	93001	V	0.1541	5/11/2022	5/11/2022	1/5/2022	64	9.9	
VT01451.02	93001	C	0.137	12/13/2022	12/13/2022	9/19/2022	44	6.0	
VT02183	93001	V	0.1541	12/13/2022	3/20/2023	9/19/2022	62	9.5	
VT01445	93001	PR	0.0482	12/13/2022	12/13/2022	9/19/2022	44	2.1	
7993352	93001	V	0.1541	3/21/2022	3/21/2022	10/11/2021	82	12.6	
7993385	93001	V	0.1541	3/21/2022	3/21/2022	10/11/2021	82	12.6	
7993354	93001	C	0.137	4/13/2022	4/13/2022	1/5/2022	50	6.9	
7993413	93001	V	0.1541	5/4/2022	5/31/2022	1/5/2022	78	11.9	
7993338	93001	C	0.1342	4/26/2022	5/9/2022	1/5/2022	70	9.3	Compressor component
7993350	93001	C	0.1342	4/26/2022	5/9/2022	1/5/2022	70	9.3	Compressor component
7993307	93001	V	0.1541	1/5/2022	3/7/2022	10/11/2021	105	16.2	
7993387	93001	V	0.1541	5/24/2022	5/31/2022	1/5/2022	78	11.9	
7993209	93001	V	0.1541	2/28/2022	3/1/2022	10/11/2021	72	11.1	
7993348	93001	C	0.137	3/21/2022	3/21/2022	10/11/2021	82	11.2	
7993333	93001	C	0.1342	3/22/2022	4/5/2022	10/11/2021	96	12.9	Compressor component
7993384	93001	V	0.1541	4/13/2022	4/13/2022	1/5/2022	50	7.7	
7993208	93001	V	0.3562	2/1/2022	2/1/2022	10/11/2021	58	20.5	Compressor component
7993376	93001	C	0.137	4/13/2022	4/13/2022	1/5/2022	50	6.9	
7993296	93001	V	0.1541	1/5/2022	1/5/2022	10/11/2021	44	6.8	
7993353	93001	V	0.1541	3/8/2022	3/8/2022	10/11/2021	82	12.6	
7993325	93001	V	0.1541	2/15/2022	3/7/2022	10/11/2021	85	13.0	
7993360	93001	V	0.1541	5/2/2022	5/2/2022	1/5/2022	60	9.2	
7993345	93001	V	0.1541	3/28/2022	4/4/2022	10/11/2021	92	14.1	
7993318	93001	V	0.1541	1/31/2022	3/7/2022	10/11/2021	92	14.2	
8149225	92301	C	0.137	11/22/2022	2/22/2023	7/2/2021	294	40.3	

Sum Total 4,142

Compressor & Component Fugitive Leaks

Removed	Added
	8149225
8599263	
8599265	

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 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)	