

SoCalGas, June 15, 2018

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 - 2018 June Report
 Appendix 3 - Rev. 03/31/18

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 compressor. Any intentional release of natural gas for safety or maintenance purposes should be included on the Blowdowns worksheet.

Transmission Compressor Vented Emissions:

ID	Geographic Location	Compressor Type	Prime Mover	Number of Cylinders	Number of Seals	Seal Type	Operating Mode: Pressurized (hours)	Operating Mode: Pressurized Idle (hours)	Operating Mode: Depressurized Idle (hours)	Emission Factor: Operating (scf/hr)	Emission Factor: Pressurized Idle (scf/hr)	Emission Factor: Depressurized Idle (scf/hr)	Annual Emissions (Mscf)	Explanatory Notes / Comments
Unit 8	92225	R	C	4	N/A	N/A	1,244	7,381	132	216.37	0	0.45	269.31	GHG Supart W data
Unit 9	92225	R	C	4	N/A	N/A	1,675	2,716	4,367	33.51	0	0.45	58.08	GHG Supart W data
Unit 10	92225	R	C	4	N/A	N/A	2,541	6,189	27	23.44	0	0.45	59.58	GHG Supart W data
Unit 11	92225	R	C	4	N/A	N/A	3,672	5,079	4	3.14	0	0.45	11.52	GHG Supart W data
Unit 12	92225	R	C	4	N/A	N/A	5,088	3,239	426	422.80	0	0.45	2,151.53	GHG Supart W data
Unit 13	92225	R	C	4	N/A	N/A	5,812	2,858	87	117.33	0	0.45	682.01	GHG Supart W data
Unit 14	92225	R	C	4	N/A	N/A	4,598	4,051	104	18.75	0	0.45	86.26	GHG Supart W data
Unit 15	92225	R	C	4	N/A	N/A	4,204	2,376	2,176	226.92	0	0	954	GHG Supart W data
CAT 1	92225	R	C	6	N/A	N/A	6,220	1,523	1,007	1,346.41	1.40	0.45	8,376.90	GHG Supart W data
CAT 2	92225	R	C	6	N/A	N/A	6,891	1,770	89	2,206.67	0.50	0.45	15,206.31	GHG Supart W data
1	92351	C	C	N/A	1	W	3,989	N/A	4,771	1,704.00	N/A	0	6,797.26	Out-of-scope for GHG Subpart W surveys. Used the calculation method to extrapolate emissions since no measurements were taken.
Unit 1	92363	R	C	4	N/A	N/A	0	0	8,753	0	0	0	0	GHG Supart W data
Unit 2	92363	R	C	4	N/A	N/A	0	0	8,758	0	0	0	0	GHG Supart W data
Unit 3	92363	R	C	4	N/A	N/A	0	0	8,758	0	0	0	0	GHG Supart W data
Unit 4	92363	R	C	4	N/A	N/A	0	0	8,618	0	0	0	0	GHG Supart W data
Unit 5	92363	R	C	4	N/A	N/A	0	0	8,759	0	0	0	0	GHG Supart W data
Unit 6	92363	R	C	4	N/A	N/A	0	0	8,758	0	0	0	0	GHG Supart W data
Unit 7	92363	R	C	4	N/A	N/A	0	0	8,735	0	0	0	0	GHG Supart W data
1	92363	R	C	6	N/A	N/A	2,454	4,522	1,776	476.36	0	0.45	1,169.86	Out-of-scope for GHG Subpart W surveys. Used the calculation method to extrapolate emissions since no measurements were taken.
2	92363	R	C	6	N/A	N/A	2,019	4,364	2,372	476.36	0	0.45	962.75	Out-of-scope for GHG Subpart W surveys. Used the calculation method to extrapolate emissions since no measurements were taken.
3	92363	R	C	5	N/A	N/A	1,816	4,729	2,207	476.36	0	0.45	866.13	Out-of-scope for GHG Subpart W surveys. Used the calculation method to extrapolate emissions since no measurements were taken.
4	92363	R	C	4	N/A	N/A	1,667	5,622	901	476.36	0	0.45	794.67	Out-of-scope for GHG Subpart W surveys. Used the calculation method to extrapolate emissions since no measurements were taken.
5	92363	R	C	4	N/A	N/A	1,821	5,518	842	476.36	0	0.45	868.02	Out-of-scope for GHG Subpart W surveys. Used the calculation method to extrapolate emissions since no measurements were taken.
1	92365	R	C	3	N/A	N/A	408	6,176	2,174	476.36	0	0.45	195.56	Out-of-scope for GHG Subpart W surveys. Used the calculation method to extrapolate emissions since no measurements were taken.
2	92365	R	C	3	N/A	N/A	345	6,236	2,178	476.36	0	0.45	165.15	Out-of-scope for GHG Subpart W surveys. Used the calculation method to extrapolate emissions since no measurements were taken.
3	92365	R	C	3	N/A	N/A	315	6,270	2,173	476.36	0	0.45	150.95	Out-of-scope for GHG Subpart W surveys. Used the calculation method to extrapolate emissions since no measurements were taken.
4	92365	R	C	3	N/A	N/A	214	6,371	2,174	476.36	0	0.45	103.04	Out-of-scope for GHG Subpart W surveys. Used the calculation method to extrapolate emissions since no measurements were taken.
5	92365	R	C	3	N/A	N/A	121	6,465	2,173	476.36	0	0.45	58.50	Out-of-scope for GHG Subpart W surveys. Used the calculation method to extrapolate emissions since no measurements were taken.
6	92365	R	C	3	N/A	N/A	59	6,527	2,173	476.36	0	0.45	29.16	Out-of-scope for GHG Subpart W surveys. Used the calculation method to extrapolate emissions since no measurements were taken.
7	92365	R	C	3	N/A	N/A	157	6,238	2,364	476.36	0	0.45	75.62	Out-of-scope for GHG Subpart W surveys. Used the calculation method to extrapolate emissions since no measurements were taken.
HPC 1	93001	R	C	2	N/A	N/A	4,868	1,534	2,356	476.36	0	0.45	2,319.99	Out-of-scope for GHG Subpart W surveys. Used the calculation method to extrapolate emissions since no measurements were taken.
HPC 2	93001	R	C	2	N/A	N/A	4,764	1,802	2,175	476.36	0	0.45	2,270.41	Out-of-scope for GHG Subpart W surveys. Used the calculation method to extrapolate emissions since no measurements were taken.
HPC 3	93001	R	C	2	N/A	N/A	5,479	2,051	1,235	476.36	0	0.45	2,610.64	Out-of-scope for GHG Subpart W surveys. Used the calculation method to extrapolate emissions since no measurements were taken.
201	93313	C	C	N/A	2	D	2,909	111	5,722	N/A	N/A	17.22	98.53	GHG Supart W data
301	93313	C	C	N/A	2	D	2,476	100	6,183	N/A	N/A	0	0	GHG Supart W data
401	93313	C	C	N/A	2	D	933	89	7,737	N/A	N/A	0	0	GHG Supart W data
501	93313	C	C	N/A	2	D	3,906	120	4,715	N/A	N/A	0	0	GHG Supart W data
Sum Total													47,391.82	

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Appendix 3 - Rev. 03/31/18

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
N/A	92028	1	2.70	Station Purging for permanent decommissioning
N/A	92363	1	22.00	Blowdown due to Unplanned Incident
N/A	92363	1	27.00	Low skid air pressure
N/A	92365	1	119.70	Station discharge piping blowdown for component replacement
N/A	93001	37	166.89	Blowdown for Maintenance
N/A	92301	1	181.00	Station Leak Test
N/A	92301	1	183.40	Station ESD
N/A	92365	12	429.69	Blowdown Compressor for Pressure reduction
N/A	92225	373	1,458.79	Blowdown for Maintenance
N/A	92363	50	1,811.28	Blowdown for Compressor Repair
N/A	93313	197	5,210.51	Blowdown for Maintenance
Sum Total			9,612.96	

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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 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/Number of Devices	Geographic Location	Device Type	Bleed Rate	Manufacturer	Engineering or Manufacturer's based Estimate of Emissions (Mscf/day/dev)	Annual Emissions (Mscf)	Explanatory Notes / Comments
21	92225	P	I	Misc.	0.0576	441.50	Valve Actuators
18	92301	P	I	Misc.	0.0576	378.43	Valve Actuators
2	92301	P	L	Misc.	0.0336	24.53	Valve Actuators
7	92351	P	I	Misc.	0.0576	147.17	Valve Actuators
19	92363	P	I	Misc.	0.0576	399.46	Valve Actuators
3	92363	P	L	Misc.	0.0336	36.79	Controllers
21	92363	P	I	Misc.	0.0576	441.50	Unloaders
6	92363	P	I	Misc.	0.0576	126.14	Valve Actuators
105	92365	P	I	Misc.	0.0576	2,207.52	Unloaders
4	92365	P	I	Misc.	0.0576	84.10	Valve Actuators
1	92365	P	I	Misc.	N/A	13.57	Pneumatic Pump - Emissions based on actual measured flow.
Sum Total						4,300.71	

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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 Co											12/31/17	01/01/17
ID	Geographic Location	Device Type	Bleed Rate	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	Emission Factor (Mscf/day/dev)	
N/A	92225	V	N/A	N/A	09/05/17	N/A	12/07/16	254	39.93	Appendix 9 EF. Non-compressor, 2" Gate - Valve	0.1572	
N/A	92225	C	N/A	N/A	09/05/17	N/A	12/07/16	254	35.53	Appendix 9 EF. Non-compressor, 2" Flange - Connector	0.1399	
N/A	92225	C	N/A	N/A	09/05/17	N/A	12/07/16	254	35.53	Appendix 9 EF. Non-compressor, 1/2" Threaded - Connector	0.1399	
N/A	92225	C	N/A	N/A	09/05/17	N/A	12/07/16	254	35.53	Appendix 9 EF. Non-compressor, 1/2" Threaded - Connector	0.1399	
N/A	92225	C	N/A	N/A	09/05/17	N/A	12/07/16	254	35.53	Appendix 9 EF. Non-compressor, 1" Threaded - Connector	0.1399	
N/A	92225	C	N/A	N/A	09/05/17	N/A	12/07/16	254	35.53	Appendix 9 EF. Non-compressor, 1/2" Elbow - Connector	0.1399	
N/A	92225	C	N/A	N/A	09/05/17	N/A	12/07/16	254	35.53	Appendix 9 EF. Non-compressor, 1/2" Plug - Connector	0.1399	
N/A	92225	C	N/A	N/A	09/05/17	N/A	12/07/16	254	35.53	Appendix 9 EF. Non-compressor, 2" Plug - Connector	0.1399	
N/A	92225	C	N/A	N/A	09/05/17	N/A	12/07/16	254	35.53	Appendix 9 EF. Non-compressor, 1/2" Reducer - Connector	0.1399	
N/A	92225	C	N/A	N/A	09/05/17	N/A	12/07/16	254	35.53	Appendix 9 EF. Non-compressor, 3/2" Reducer - Connector	0.1399	
N/A	92225	V	N/A	N/A	09/05/17	N/A	12/07/16	254	39.93	Appendix 9 EF. Non-compressor, 2" Ball - Valve	0.1572	
N/A	92225	C	N/A	N/A	09/05/17	N/A	12/07/16	254	35.53	Appendix 9 EF. Non-compressor, 1" Plug - Connector	0.1399	
N/A	92225	PR	N/A	N/A	09/05/17	N/A	12/07/16	254	12.50	Appendix 9 EF. Non-compressor, 1" Thermal - Pressure Relief Valve	0.0492	
N/A	92225	V	N/A	N/A	09/05/17	N/A	12/07/16	254	39.93	Appendix 9 EF. Non-compressor, 1" Flange - Valve	0.1572	
N/A	92225	C	N/A	N/A	09/05/17	N/A	12/07/16	254	35.53	Appendix 9 EF. Non-compressor, 1/2" Plug - Connector	0.1399	
N/A	92225	C	N/A	N/A	09/05/17	N/A	12/07/16	254	35.53	Appendix 9 EF. Non-compressor, 1" Threaded - Connector	0.1399	
N/A	92225	C	N/A	N/A	09/05/17	N/A	12/07/16	254	35.53	Appendix 9 EF. Non-compressor, 1" Threaded - Connector	0.1399	
N/A	92225	C	N/A	N/A	09/05/17	N/A	12/07/16	254	35.53	Appendix 9 EF. Non-compressor, 2" Threaded - Connector	0.1399	
N/A	92225	C	N/A	N/A	09/05/17	N/A	12/07/16	254	35.53	Appendix 9 EF. Non-compressor, 2" Threaded - Connector	0.1399	
N/A	92225	C	N/A	N/A	09/06/17	N/A	12/07/16	254	35.46	Appendix 9 EF. Non-compressor, 3/4" Threaded - Connector	0.1399	
N/A	92225	V	N/A	N/A	09/06/17	N/A	12/07/16	254	39.85	Appendix 9 EF. Non-compressor, 4" Plug - Valve	0.1572	
N/A	92225	V	N/A	N/A	09/06/17	N/A	12/07/16	254	39.85	Appendix 9 EF. Non-compressor, 2" Ball - Valve	0.1572	
N/A	92225	C	N/A	N/A	09/06/17	N/A	12/07/16	254	35.46	Appendix 9 EF. Non-compressor, 2" Threaded - Connector	0.1399	
N/A	92225	C	N/A	N/A	09/06/17	N/A	12/07/16	254	35.46	Appendix 9 EF. Non-compressor, 1/2" Reducer - Connector	0.1399	
N/A	92225	V	N/A	N/A	09/06/17	N/A	12/07/16	254	39.85	Appendix 9 EF. Non-compressor, 1/2" Needle - Valve	0.1572	
N/A	92225	V	N/A	N/A	09/06/17	12/18/17	12/07/16	241	37.81	Appendix 9 EF. Non-compressor, 2" Ball - Valve	0.1572	
N/A	92225	C	N/A	N/A	09/06/17	12/18/17	12/07/16	241	33.65	Appendix 9 EF. Non-compressor, 1/2" Threaded - Connector	0.1399	
N/A	92225	C	N/A	N/A	09/06/17	12/18/17	12/07/16	241	33.65	Appendix 9 EF. Non-compressor, 1/2" Threaded - Connector	0.1399	
N/A	92225	C	N/A	N/A	09/06/17	12/18/17	12/07/16	241	33.65	Appendix 9 EF. Non-compressor, 1/2" Threaded - Connector	0.1399	
N/A	92225	V	N/A	N/A	09/06/17	12/18/17	12/07/16	241	37.81	Appendix 9 EF. Non-compressor, 1/2" Check - Valve	0.1572	
N/A	92225	V	N/A	N/A	09/06/17	12/18/17	12/07/16	241	37.81	Appendix 9 EF. Non-compressor, 2" Flange - Valve	0.1572	
N/A	92225	C	N/A	N/A	09/06/17	12/18/17	12/07/16	241	33.65	Appendix 9 EF. Non-compressor, 1/2" Threaded - Connector	0.1399	
N/A	92225	C	N/A	N/A	09/06/17	12/18/17	12/07/16	241	33.65	Appendix 9 EF. Non-compressor, 1/2" Union - Connector	0.1399	
N/A	92225	C	N/A	N/A	09/06/17	12/18/17	12/07/16	241	33.65	Appendix 9 EF. Non-compressor, 1/2" Union - Connector	0.1399	
N/A	92225	C	N/A	N/A	09/06/17	12/18/17	12/07/16	241	33.65	Appendix 9 EF. Non-compressor, 1/2" Union - Connector	0.1399	
N/A	92225	V	N/A	N/A	09/06/17	12/18/17	12/07/16	241	37.81	Appendix 9 EF. Non-compressor, 1" Needle - Valve	0.1572	
N/A	92225	C	N/A	N/A	09/06/17	N/A	12/07/16	254	35.46	Appendix 9 EF. Non-compressor, 1" Union - Connector	0.1399	
N/A	92225	C	N/A	N/A	09/06/17	12/18/17	12/07/16	241	33.65	Appendix 9 EF. Non-compressor, 1/2" Union - Connector	0.1399	
N/A	92225	C	N/A	N/A	09/07/17	09/29/17	12/07/16	160	22.38	Appendix 9 EF. Non-compressor, 4" Union - Connector	0.1399	
N/A	92225	C	N/A	N/A	09/07/17	09/29/17	12/07/16	160	22.38	Appendix 9 EF. Non-compressor, 3/4" Plug - Connector	0.1399	
N/A	92225	C	N/A	N/A	09/07/17	12/18/17	12/07/16	240	33.58	Appendix 9 EF. Non-compressor, 2" Elbow - Connector	0.1399	
N/A	92225	C	N/A	N/A	09/07/17	12/18/17	12/07/16	240	33.58	Appendix 9 EF. Non-compressor, 2" Elbow - Connector	0.1399	
N/A	92225	C	N/A	N/A	09/07/17	12/18/17	12/07/16	240	33.58	Appendix 9 EF. Non-compressor, 2" Elbow - Connector	0.1399	

ID	Geographic Location	Device Type	Bleed Rate	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	Emission Factor (Mscf/day/dev)
N/A	92225	V	N/A	N/A	09/07/17	09/29/17	12/07/16	160	25.15	Appendix 9 EF. Non-compressor, 1/2" Ball - Valve	0.1572
N/A	92225	C	N/A	N/A	09/07/17	12/14/17	12/07/16	236	33.02	Appendix 9 EF. Non-compressor, 1/2" Reducer - Connector	0.1399
N/A	92225	C	N/A	N/A	09/07/17	09/29/17	12/07/16	160	22.38	Appendix 9 EF. Non-compressor, 1/2" Plug - Connector	0.1399
N/A	92225	C	N/A	N/A	09/07/17	09/29/17	12/07/16	160	22.38	Appendix 9 EF. Non-compressor, 1/2" Plug - Connector	0.1399
N/A	92225	V	N/A	N/A	09/07/17	09/29/17	12/07/16	160	25.15	Appendix 9 EF. Non-compressor, 1/2" Needle - Valve	0.1572
N/A	92225	V	N/A	N/A	09/07/17	09/29/17	12/07/16	160	25.15	Appendix 9 EF. Non-compressor, 1/2" Needle - Valve	0.1572
N/A	92225	C	N/A	N/A	09/07/17	09/29/17	12/07/16	160	22.38	Appendix 9 EF. Non-compressor, 1/2" Plug - Connector	0.1399
N/A	92225	C	N/A	N/A	09/07/17	N/A	12/07/16	253	35.39	Appendix 9 EF. Non-compressor, 1/2" Reducer - Connector	0.1399
N/A	92225	C	N/A	N/A	09/07/17	09/29/17	12/07/16	160	22.38	Appendix 9 EF. Non-compressor, 1/2" Plug - Connector	0.1399
N/A	92225	C	N/A	N/A	09/07/17	09/29/17	12/07/16	160	22.38	Appendix 9 EF. Non-compressor, 1/2" Plug - Connector	0.1399
N/A	92225	Other	N/A	N/A	09/07/17	09/14/17	12/07/16	145	14.27	GHG Subpart W data - Table 3 for Non-compressor - Other component (4.1 scfh). Non-compressor, 1/2" Gauge - Other	0.0984
N/A	92225	C	N/A	N/A	09/08/17	12/06/17	12/07/16	228	30.52	GHG Subpart W data - Table 3 for Compressor - Connector component (5.59 scfh). Compressor, 4" Flange - Connector	0.1342
N/A	92225	C	N/A	N/A	09/08/17	12/06/17	12/07/16	228	30.52	GHG Subpart W data - Table 3 for Compressor - Connector component (5.59 scfh). Compressor, 8" Flange - Connector	0.1342
N/A	92225	V	N/A	N/A	09/08/17	12/06/17	12/07/16	228	81.03	GHG Subpart W data - Table 3 for Compressor - Valve component (14.84 scfh). Compressor, 2" Ball - Valve	0.3562
N/A	92225	V	N/A	N/A	09/08/17	12/06/17	12/07/16	228	81.03	GHG Subpart W data - Table 3 for Compressor - Valve component (14.84 scfh). Compressor, 2" Ball - Valve	0.3562
N/A	92225	V	N/A	N/A	09/08/17	12/06/17	12/07/16	228	81.03	GHG Subpart W data - Table 3 for Compressor - Valve component (14.84 scfh). Compressor, 2" Ball - Valve	0.3562
N/A	92225	V	N/A	N/A	09/08/17	12/06/17	12/07/16	228	81.03	GHG Subpart W data - Table 3 for Compressor - Valve component (14.84 scfh). Compressor, 2" Ball - Valve	0.3562
N/A	92225	V	N/A	N/A	09/08/17	12/06/17	12/07/16	228	81.03	GHG Subpart W data - Table 3 for Compressor - Valve component (14.84 scfh). Compressor, 2" Ball - Valve	0.3562
N/A	92225	V	N/A	N/A	09/08/17	12/06/17	12/07/16	228	35.76	Appendix 9 EF. Non-compressor, 16" Daniel - Valve	0.1572
N/A	92225	C	N/A	N/A	09/08/17	12/06/17	12/07/16	228	31.83	Appendix 9 EF. Non-compressor, 1/2" Reducer - Connector	0.1399
N/A	92225	C	N/A	N/A	09/08/17	12/18/17	12/07/16	240	33.51	Appendix 9 EF. Non-compressor, 1/2" Union - Connector	0.1399
N/A	92225	V	N/A	N/A	09/08/17	N/A	12/07/16	253	39.69	Appendix 9 EF. Non-compressor, 3/4" Regulator - Valve	0.1572
N/A	92225	C	N/A	N/A	09/08/17	09/29/17	12/07/16	160	22.31	Appendix 9 EF. Non-compressor, 3/4" Plug - Connector	0.1399
N/A	92225	C	N/A	N/A	09/08/17	09/29/17	12/07/16	160	22.31	Appendix 9 EF. Non-compressor, 3/4" Plug - Connector	0.1399
N/A	92225	C	N/A	N/A	09/08/17	09/29/17	12/07/16	160	22.31	Appendix 9 EF. Non-compressor, 2" Plug - Connector	0.1399
N/A	92225	V	N/A	N/A	09/08/17	09/29/17	12/07/16	160	25.07	Appendix 9 EF. Non-compressor, 1/2" Needle - Valve	0.1572
N/A	92225	C	N/A	N/A	09/08/17	09/29/17	12/07/16	160	22.31	Appendix 9 EF. Non-compressor, 3/4" Plug - Connector	0.1399
N/A	92363	C	N/A	N/A	09/12/17	N/A	11/07/16	266	37.14	Appendix 9 EF. Non-compressor, 1/2" Plug - Connector	0.1399
N/A	92363	C	N/A	N/A	09/12/17	N/A	11/07/16	266	37.14	Appendix 9 EF. Non-compressor, 1" Union - Connector	0.1399
N/A	92363	C	N/A	N/A	09/12/17	N/A	11/07/16	266	37.14	Appendix 9 EF. Non-compressor, 1" Union - Connector	0.1399
N/A	92363	C	N/A	N/A	09/12/17	N/A	11/07/16	266	37.14	Appendix 9 EF. Non-compressor, 2" Elbow - Connector	0.1399
N/A	92363	C	N/A	N/A	09/12/17	N/A	11/07/16	266	37.14	Appendix 9 EF. Non-compressor, 2" Elbow - Connector	0.1399
N/A	92363	C	N/A	N/A	09/12/17	N/A	11/07/16	266	37.14	Appendix 9 EF. Non-compressor, 1" Threaded - Connector	0.1399
N/A	92363	C	N/A	N/A	09/12/17	N/A	11/07/16	266	37.14	Appendix 9 EF. Non-compressor, 1" Tee - Connector	0.1399
N/A	92363	C	N/A	N/A	09/12/17	N/A	11/07/16	266	37.14	Appendix 9 EF. Non-compressor, 1" Union - Connector	0.1399
N/A	92363	V	N/A	N/A	09/12/17	N/A	11/07/16	266	41.74	Appendix 9 EF. Non-compressor, 1" Regulator - Valve	0.1572
N/A	92363	V	N/A	N/A	09/12/17	N/A	11/07/16	266	41.74	Appendix 9 EF. Non-compressor, 1" Ball - Valve	0.1572
N/A	92363	C	N/A	N/A	09/12/17	10/20/17	11/07/16	194	27.07	Appendix 9 EF. Non-compressor, 1/2" Plug - Connector	0.1399
N/A	92363	C	N/A	N/A	09/12/17	10/20/17	11/07/16	194	27.07	Appendix 9 EF. Non-compressor, 1" Plug - Connector	0.1399
N/A	92363	C	N/A	N/A	09/12/17	10/20/17	11/07/16	194	27.07	Appendix 9 EF. Non-compressor, 1" Plug - Connector	0.1399
N/A	92363	C	N/A	N/A	09/12/17	10/20/17	11/07/16	194	27.07	Appendix 9 EF. Non-compressor, 1/2" Plug - Connector	0.1399
N/A	92363	C	N/A	N/A	09/12/17	09/20/17	11/07/16	164	22.87	Appendix 9 EF. Non-compressor, 2" Union - Connector	0.1399
N/A	92363	C	N/A	N/A	09/12/17	09/20/17	11/07/16	164	22.87	Appendix 9 EF. Non-compressor, 2" Nipple - Connector	0.1399
N/A	92363	C	N/A	N/A	09/12/17	09/20/17	11/07/16	164	22.87	Appendix 9 EF. Non-compressor, 2" Reducer - Connector	0.1399
N/A	92363	C	N/A	N/A	09/12/17	09/20/17	11/07/16	164	22.87	Appendix 9 EF. Non-compressor, 2" Coupling - Connector	0.1399
N/A	92363	C	N/A	N/A	09/12/17	09/20/17	11/07/16	164	22.87	Appendix 9 EF. Non-compressor, 2" Reducer - Connector	0.1399
N/A	92363	C	N/A	N/A	09/12/17	09/20/17	11/07/16	164	22.87	Appendix 9 EF. Non-compressor, 2" Nipple - Connector	0.1399
N/A	92363	V	N/A	N/A	09/14/17	N/A	11/07/16	265	94.20	GHG Subpart W data - Table 3 for Compressor - Valve component (14.84 scfh). Compressor, 3/4" Kinicock - Valve	0.3562
N/A	92363	V	N/A	N/A	09/14/17	N/A	11/07/16	265	94.20	GHG Subpart W data - Table 3 for Compressor - Valve component (14.84 scfh). Compressor, 3/4" Kinicock - Valve	0.3562
N/A	92363	V	N/A	N/A	09/14/17	N/A	11/07/16	265	94.20	GHG Subpart W data - Table 3 for Compressor - Valve component (14.84 scfh). Compressor, 3/4" Kinicock - Valve	0.3562
N/A	92363	V	N/A	N/A	09/14/17	N/A	11/07/16	265	94.20	GHG Subpart W data - Table 3 for Compressor - Valve component (14.84 scfh). Compressor, 3/4" Kinicock - Valve	0.3562
N/A	92363	V	N/A	N/A	09/14/17	N/A	11/07/16	265	94.20	GHG Subpart W data - Table 3 for Compressor - Valve component (14.84 scfh). Compressor, 3/4" Kinicock - Valve	0.3562
N/A	92363	V	N/A	N/A	09/14/17	N/A	11/07/16	265	94.20	GHG Subpart W data - Table 3 for Compressor - Valve component (14.84 scfh). Compressor, 3/4" Kinicock - Valve	0.3562
N/A	92363	V	N/A	N/A	09/14/17	N/A	11/07/16	265	94.20	GHG Subpart W data - Table 3 for Compressor - Valve component (14.84 scfh). Compressor, 3/4" Kinicock - Valve	0.3562
N/A	92363	V	N/A	N/A	09/14/17	N/A	11/07/16	265	94.20	GHG Subpart W data - Table 3 for Compressor - Valve component (14.84 scfh). Compressor, 3/4" Kinicock - Valve	0.3562
N/A	92363	V	N/A	N/A	09/14/17	10/20/17	11/07/16	193	68.56	GHG Subpart W data - Table 3 for Compressor - Valve component (14.84 scfh). Compressor, 3/4" Kinicock - Valve	0.3562

ID	Geographic Location	Device Type	Bleed Rate	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	Emission Factor (Mscf/day/dev)
N/A	92351	V	N/A	N/A	09/15/17	N/A	11/09/16	263	41.34	Appendix 9 EF. Non-compressor, 3/4" Ball - Valve	0.1572
N/A	92225	C	N/A	N/A	09/17/17	09/29/17	12/07/16	155	21.68	Appendix 9 EF. Non-compressor, 1/2" Threaded - Connector	0.1399
N/A	92225	C	N/A	N/A	09/17/17	09/29/17	12/07/16	155	21.68	Appendix 9 EF. Non-compressor, 2" Union - Connector	0.1399
N/A	92225	C	N/A	N/A	09/17/17	09/29/17	12/07/16	155	21.68	Appendix 9 EF. Non-compressor, 2" Threaded - Connector	0.1399
N/A	92365	C	N/A	N/A	09/18/17	N/A	09/26/16	284	39.66	Appendix 9 EF. Non-compressor, 2" Cap - Connector	0.1399
N/A	92365	V	N/A	N/A	09/18/17	N/A	09/26/16	284	44.57	Appendix 9 EF. Non-compressor, 1" Ball - Valve	0.1572
N/A	92365	V	N/A	N/A	09/18/17	N/A	09/26/16	284	44.57	Appendix 9 EF. Non-compressor, 2" Ball - Valve	0.1572
N/A	92365	C	N/A	N/A	09/18/17	N/A	09/26/16	284	39.66	Appendix 9 EF. Non-compressor, 2" Threaded - Connector	0.1399
N/A	92365	C	N/A	N/A	09/18/17	N/A	09/26/16	284	39.66	Appendix 9 EF. Non-compressor, 2" Tee - Connector	0.1399
N/A	92365	C	N/A	N/A	09/18/17	N/A	09/26/16	284	39.66	Appendix 9 EF. Non-compressor, 2" Threaded - Connector	0.1399
N/A	92365	C	N/A	N/A	09/18/17	N/A	09/26/16	284	39.66	Appendix 9 EF. Non-compressor, 2" Tee - Connector	0.1399
N/A	92365	C	N/A	N/A	09/18/17	N/A	09/26/16	284	39.66	Appendix 9 EF. Non-compressor, 2" Tee - Connector	0.1399
N/A	92365	C	N/A	N/A	09/18/17	N/A	09/26/16	284	39.66	Appendix 9 EF. Non-compressor, 2" Tee - Connector	0.1399
N/A	92365	C	N/A	N/A	09/18/17	N/A	09/26/16	284	39.66	Appendix 9 EF. Non-compressor, 2" Tee - Connector	0.1399
N/A	92365	C	N/A	N/A	09/18/17	N/A	09/26/16	284	39.66	Appendix 9 EF. Non-compressor, 1/2" Plug - Connector	0.1399
N/A	92365	C	N/A	N/A	09/18/17	N/A	09/26/16	284	39.66	Appendix 9 EF. Non-compressor, 1/2" Plug - Connector	0.1399
N/A	92365	C	N/A	N/A	09/18/17	02/07/18	09/26/16	284	39.66	Appendix 9 EF. Non-compressor, 1" Union - Connector	0.1399
N/A	92365	C	N/A	N/A	09/18/17	02/07/18	09/26/16	284	39.66	Appendix 9 EF. Non-compressor, 3/2" Reducer - Connector	0.1399
N/A	92365	C	N/A	N/A	09/18/17	02/07/18	09/26/16	284	39.66	Appendix 9 EF. Non-compressor, 3/2" Reducer - Connector	0.1399
N/A	92365	C	N/A	N/A	09/18/17	N/A	09/26/16	284	39.66	Appendix 9 EF. Non-compressor, 2" Threaded - Connector	0.1399
N/A	92365	C	N/A	N/A	09/18/17	N/A	09/26/16	284	39.66	Appendix 9 EF. Non-compressor, 2" Threaded - Connector	0.1399
N/A	92365	C	N/A	N/A	09/18/17	01/22/18	09/26/16	284	39.66	Appendix 9 EF. Non-compressor, 1/2" Tee - Connector	0.1399
N/A	92365	V	N/A	N/A	09/18/17	01/22/18	09/26/16	284	44.57	Appendix 9 EF. Non-compressor, 1" Bonnet - Valve	0.1572
N/A	92365	C	N/A	N/A	09/18/17	01/22/18	09/26/16	284	39.66	Appendix 9 EF. Non-compressor, 1/2" Threaded - Connector	0.1399
N/A	92365	V	N/A	N/A	09/18/17	N/A	09/26/16	284	44.57	Appendix 9 EF. Non-compressor, 8" Ball - Valve	0.1572
N/A	92365	C	N/A	N/A	09/18/17	N/A	09/26/16	284	39.66	Appendix 9 EF. Non-compressor, 2" Threaded - Connector	0.1399
N/A	92365	C	N/A	N/A	09/19/17	N/A	09/26/16	283	39.59	Appendix 9 EF. Non-compressor, 1/2" Cap - Connector	0.1399
N/A	92365	C	N/A	N/A	09/19/17	N/A	09/26/16	283	39.59	Appendix 9 EF. Non-compressor, 2" Threaded - Connector	0.1399
N/A	92365	C	N/A	N/A	09/19/17	N/A	09/26/16	283	39.59	Appendix 9 EF. Non-compressor, 2" Plug - Connector	0.1399
N/A	92365	C	N/A	N/A	09/19/17	02/06/18	09/26/16	283	39.59	Appendix 9 EF. Non-compressor, 1/2" Threaded - Connector	0.1399
N/A	92365	V	N/A	N/A	09/19/17	N/A	09/26/16	283	44.49	Appendix 9 EF. Non-compressor, 6" Orbit - Valve	0.1572
N/A	92365	V	N/A	N/A	09/19/17	N/A	09/26/16	283	44.49	Appendix 9 EF. Non-compressor, 6" Orbit - Valve	0.1572
N/A	92365	C	N/A	N/A	09/19/17	N/A	09/26/16	283	39.59	Appendix 9 EF. Non-compressor, 2" Flange - Connector	0.1399
N/A	92365	V	N/A	N/A	09/19/17	N/A	09/26/16	283	44.49	Appendix 9 EF. Non-compressor, 2" Flange - Valve	0.1572
N/A	92365	C	N/A	N/A	09/19/17	N/A	09/26/16	283	39.59	Appendix 9 EF. Non-compressor, 1/2" Plug - Connector	0.1399
N/A	92365	C	N/A	N/A	09/19/17	02/06/18	09/26/16	283	39.59	Appendix 9 EF. Non-compressor, 1/2" Cap - Connector	0.1399
N/A	92365	V	N/A	N/A	09/19/17	N/A	09/26/16	283	44.49	Appendix 9 EF. Non-compressor, 2" Flange - Valve	0.1572
N/A	92365	C	N/A	N/A	09/19/17	N/A	09/26/16	283	39.59	Appendix 9 EF. Non-compressor, 1/2" Elbow - Connector	0.1399
N/A	92365	C	N/A	N/A	09/19/17	N/A	09/26/16	283	39.59	Appendix 9 EF. Non-compressor, 1/2" Reducer - Connector	0.1399
N/A	92365	V	N/A	N/A	09/19/17	02/06/18	09/26/16	283	44.49	Appendix 9 EF. Non-compressor, 1" Ball - Valve	0.1572
N/A	92365	V	N/A	N/A	09/19/17	02/06/18	09/26/16	283	44.49	Appendix 9 EF. Non-compressor, 1" Ball - Valve	0.1572
N/A	92365	C	N/A	N/A	09/19/17	N/A	09/26/16	283	39.59	Appendix 9 EF. Non-compressor, 1/2" Threaded - Connector	0.1399
N/A	92365	C	N/A	N/A	09/19/17	N/A	09/26/16	283	39.59	Appendix 9 EF. Non-compressor, 1/2" Threaded - Connector	0.1399
N/A	92365	C	N/A	N/A	09/20/17	02/02/18	09/26/16	283	37.90	GHG Subpart W data - Table 3 for Compressor - Connector component (5.59 scfh). Compressor, 1/2" Cap - Connector	0.1342
N/A	92365	C	N/A	N/A	09/20/17	02/02/18	09/26/16	283	37.90	GHG Subpart W data - Table 3 for Compressor - Connector component (5.59 scfh). Compressor, 1/2" Cap - Connector	0.1342
N/A	92365	C	N/A	N/A	09/20/17	N/A	09/26/16	283	37.90	GHG Subpart W data - Table 3 for Compressor - Connector component (5.59 scfh). Compressor, 1/2" Cap - Connector	0.1342
N/A	92365	C	N/A	N/A	09/20/17	10/17/17	09/26/16	208	27.84	GHG Subpart W data - Table 3 for Compressor - Connector component (5.59 scfh). Compressor, 1/2" Cap - Connector	0.1342
N/A	92365	C	N/A	N/A	09/20/17	10/17/17	09/26/16	208	27.84	GHG Subpart W data - Table 3 for Compressor - Connector component (5.59 scfh). Compressor, 1/2" Cap - Connector	0.1342
N/A	92365	C	N/A	N/A	09/20/17	10/17/17	09/26/16	208	27.84	GHG Subpart W data - Table 3 for Compressor - Connector component (5.59 scfh). Compressor, 1/2" Cap - Connector	0.1342
N/A	92365	C	N/A	N/A	09/20/17	10/17/17	09/26/16	208	27.84	GHG Subpart W data - Table 3 for Compressor - Connector component (5.59 scfh). Compressor, 1/2" Cap - Connector	0.1342
N/A	92365	C	N/A	N/A	09/20/17	10/17/17	09/26/16	208	27.84	GHG Subpart W data - Table 3 for Compressor - Connector component (5.59 scfh). Compressor, 1/2" Cap - Connector	0.1342
N/A	92365	C	N/A	N/A	09/20/17	10/17/17	09/26/16	208	27.84	GHG Subpart W data - Table 3 for Compressor - Connector component (5.59 scfh). Compressor, 1/2" Cap - Connector	0.1342
N/A	92365	V	N/A	N/A	09/20/17	09/27/17	09/26/16	188	66.78	GHG Subpart W data - Table 3 for Compressor - Valve component (14.84 scfh). Compressor, 2" Regulator - Valve	0.3562
N/A	92365	Other	N/A	N/A	09/20/17	N/A	09/26/16	283	27.80	GHG Subpart W data - Table 3 for Compressor - Other component (4.1 scfh). Compressor, 2" Cylinder - Other	0.0984
N/A	92365	C	N/A	N/A	09/20/17	N/A	09/26/16	283	37.90	GHG Subpart W data - Table 3 for Compressor - Connector component (5.59 scfh). Compressor, 12" Flange - Connector	0.1342
N/A	92365	C	N/A	N/A	09/20/17	N/A	09/26/16	283	37.90	GHG Subpart W data - Table 3 for Compressor - Connector component (5.59 scfh). Compressor, 12" Flange - Connector	0.1342

ID	Geographic Location	Device Type	Bleed Rate	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	Emission Factor (Mscf/day/dev)
N/A	92301	C	N/A	N/A	09/22/17	N/A	12/09/16	245	34.21	Appendix 9 EF. Non-compressor, 3/4" Plug - Connector	0.1399
N/A	92301	C	N/A	N/A	09/22/17	N/A	12/10/16	244	34.14	Appendix 9 EF. Non-compressor, 1/2" Plug - Connector	0.1399
N/A	92301	C	N/A	N/A	09/22/17	N/A	12/11/16	244	34.07	Appendix 9 EF. Non-compressor, 2" Tee - Connector	0.1399
N/A	92301	C	N/A	N/A	09/22/17	N/A	12/12/16	243	34.00	Appendix 9 EF. Non-compressor, 1/2" Threaded - Connector	0.1399
N/A	92301	C	N/A	N/A	09/22/17	N/A	12/13/16	243	33.93	Appendix 9 EF. Non-compressor, 1/2" Threaded - Connector	0.1399
N/A	92301	C	N/A	N/A	09/22/17	N/A	12/14/16	242	33.86	Appendix 9 EF. Non-compressor, 1/2" Threaded - Connector	0.1399
N/A	92301	C	N/A	N/A	09/22/17	N/A	12/15/16	242	33.79	Appendix 9 EF. Non-compressor, 2" Flange - Connector	0.1399
N/A	92301	V	N/A	N/A	09/22/17	N/A	12/16/16	241	37.89	Appendix 9 EF. Non-compressor, 2" Ball - Valve	0.1572
N/A	92301	C	N/A	N/A	09/22/17	N/A	12/17/16	241	33.65	Appendix 9 EF. Non-compressor, 1" Union - Connector	0.1399
N/A	92301	C	N/A	N/A	09/22/17	N/A	12/18/16	240	33.58	Appendix 9 EF. Non-compressor, 1" Union - Connector	0.1399
N/A	92301	C	N/A	N/A	09/22/17	N/A	12/19/16	240	33.51	Appendix 9 EF. Non-compressor, 1/2" Threaded - Connector	0.1399
N/A	92301	C	N/A	N/A	09/22/17	N/A	12/20/16	239	33.44	Appendix 9 EF. Non-compressor, 1/2" Cap - Connector	0.1399
N/A	92301	C	N/A	N/A	09/22/17	N/A	12/21/16	239	33.37	Appendix 9 EF. Non-compressor, 1/2" Cap - Connector	0.1399
N/A	92301	C	N/A	N/A	09/22/17	N/A	12/22/16	238	33.30	Appendix 9 EF. Non-compressor, 1" Plug - Connector	0.1399
N/A	92301	C	N/A	N/A	09/22/17	N/A	12/23/16	238	33.23	Appendix 9 EF. Non-compressor, 1" Plug - Connector	0.1399
N/A	92301	C	N/A	N/A	09/22/17	N/A	12/24/16	237	33.16	Appendix 9 EF. Non-compressor, 2" Plug - Connector	0.1399
N/A	92301	C	N/A	N/A	09/22/17	N/A	12/25/16	237	33.09	Appendix 9 EF. Non-compressor, 3/4" Plug - Connector	0.1399
N/A	92301	C	N/A	N/A	09/22/17	N/A	12/26/16	236	33.02	Appendix 9 EF. Non-compressor, 2" Union - Connector	0.1399
N/A	92301	V	N/A	N/A	09/22/17	N/A	12/27/16	236	37.02	Appendix 9 EF. Non-compressor, 2" Bonnet - Valve	0.1572
N/A	92301	C	N/A	N/A	09/22/17	N/A	12/28/16	235	32.88	Appendix 9 EF. Non-compressor, 1/2" Reducer - Connector	0.1399
N/A	92301	V	N/A	N/A	09/22/17	N/A	12/29/16	235	36.86	Appendix 9 EF. Non-compressor, 2" Ball - Valve	0.1572
N/A	92301	V	N/A	N/A	09/22/17	N/A	12/30/16	234	36.78	Appendix 9 EF. Non-compressor, 1" Ball - Valve	0.1572
N/A	92301	C	N/A	N/A	09/22/17	N/A	12/31/16	234	32.67	Appendix 9 EF. Non-compressor, 1/2" Reducer - Connector	0.1399
N/A	92301	C	N/A	N/A	09/22/17	N/A	01/01/17	233	32.60	Appendix 9 EF. Non-compressor, 2" Reducer - Connector	0.1399
N/A	92301	V	N/A	N/A	09/22/17	N/A	01/02/17	233	36.55	Appendix 9 EF. Non-compressor, 3/4" Ball - Valve	0.1572
N/A	92301	C	N/A	N/A	09/22/17	N/A	01/03/17	232	32.46	Appendix 9 EF. Non-compressor, 3/4" Plug - Connector	0.1399
N/A	92301	C	N/A	N/A	09/22/17	N/A	01/04/17	232	32.39	Appendix 9 EF. Non-compressor, 2" Union - Connector	0.1399
N/A	92301	C	N/A	N/A	09/22/17	N/A	01/05/17	231	32.32	Appendix 9 EF. Non-compressor, 2" Plug - Connector	0.1399
N/A	92301	C	N/A	N/A	09/22/17	N/A	01/06/17	231	32.25	Appendix 9 EF. Non-compressor, 1/2" Plug - Connector	0.1399
N/A	92301	C	N/A	N/A	09/22/17	N/A	01/07/17	230	32.18	Appendix 9 EF. Non-compressor, 1" Reducer - Connector	0.1399
N/A	92301	C	N/A	N/A	09/22/17	N/A	01/08/17	230	32.11	Appendix 9 EF. Non-compressor, 1/2" Threaded - Connector	0.1399
N/A	93001	C	N/A	N/A	09/24/17	N/A	11/28/16	249	34.84	Appendix 9 EF. Non-compressor, 1/2" Plug - Connector	0.1399
N/A	93001	C	N/A	N/A	09/24/17	N/A	11/28/16	249	34.84	Appendix 9 EF. Non-compressor, 1/2" Plug - Connector	0.1399
N/A	93001	V	N/A	N/A	09/24/17	N/A	11/28/16	249	39.14	Appendix 9 EF. Non-compressor, 1/2" Ball - Valve	0.1572
N/A	93001	V	N/A	N/A	09/24/17	N/A	11/28/16	249	39.14	Appendix 9 EF. Non-compressor, 1/2" Ball - Valve	0.1572
N/A	93001	V	N/A	N/A	09/24/17	N/A	11/28/16	249	39.14	Appendix 9 EF. Non-compressor, 12" Daniel - Valve	0.1572
N/A	93001	C	N/A	N/A	09/24/17	N/A	11/28/16	249	34.84	Appendix 9 EF. Non-compressor, 3/4" Plug - Connector	0.1399
N/A	93001	C	N/A	N/A	09/24/17	N/A	11/28/16	249	34.84	Appendix 9 EF. Non-compressor, 3/4" Plug - Connector	0.1399
N/A	93001	C	N/A	N/A	09/24/17	N/A	11/28/16	249	34.84	Appendix 9 EF. Non-compressor, 3/4" Plug - Connector	0.1399
N/A	93001	V	N/A	N/A	09/24/17	N/A	11/28/16	249	39.14	Appendix 9 EF. Non-compressor, 12" Daniel - Valve	0.1572
N/A	93001	V	N/A	N/A	09/24/17	N/A	11/28/16	249	39.14	Appendix 9 EF. Non-compressor, 8" Daniel - Valve	0.1572
N/A	93001	C	N/A	N/A	09/24/17	N/A	11/28/16	249	34.84	Appendix 9 EF. Non-compressor, 1/2" Plug - Connector	0.1399
N/A	93001	C	N/A	N/A	09/24/17	N/A	11/28/16	249	33.41	GHG Subpart W data - Table 3 for Compressor - Connector component (5.59 scfh). Compressor, 4" Flange - Connector	0.1342
N/A	93001	C	N/A	N/A	09/24/17	N/A	11/28/16	249	33.41	GHG Subpart W data - Table 3 for Compressor - Connector component (5.59 scfh). Compressor, 1/2" Plug - Connector	0.1342
N/A	93313	C	N/A	N/A	09/25/17	N/A	11/30/16	248	34.63	Appendix 9 EF. Non-compressor, 1/2" Threaded - Connector	0.1399
N/A	93313	PR	N/A	N/A	09/25/17	N/A	11/30/16	248	12.18	Appendix 9 EF. Non-compressor, 1" Thermal - Pressure Relief Valve	0.0492
N/A	93313	C	N/A	N/A	09/25/17	N/A	11/30/16	248	34.63	Appendix 9 EF. Non-compressor, 1/2" Plug - Connector	0.1399
N/A	93313	C	N/A	N/A	09/25/17	N/A	11/30/16	248	34.63	Appendix 9 EF. Non-compressor, 2" Plug - Connector	0.1399
N/A	93313	C	N/A	N/A	09/25/17	N/A	11/30/16	248	34.63	Appendix 9 EF. Non-compressor, 3/4" Plug - Connector	0.1399
N/A	93313	C	N/A	N/A	09/25/17	N/A	11/30/16	248	34.63	Appendix 9 EF. Non-compressor, 3/4" Plug - Connector	0.1399
N/A	93313	C	N/A	N/A	09/25/17	N/A	11/30/16	248	34.63	Appendix 9 EF. Non-compressor, 3/4" Plug - Connector	0.1399
N/A	93313	C	N/A	N/A	09/25/17	N/A	11/30/16	248	34.63	Appendix 9 EF. Non-compressor, 3/4" Plug - Connector	0.1399
N/A	93313	C	N/A	N/A	09/25/17	N/A	11/30/16	248	34.63	Appendix 9 EF. Non-compressor, 3/4" Plug - Connector	0.1399
N/A	93313	C	N/A	N/A	09/25/17	N/A	11/30/16	248	34.63	Appendix 9 EF. Non-compressor, 3/4" Plug - Connector	0.1399
N/A	93313	V	N/A	N/A	09/25/17	N/A	11/30/16	248	38.91	Appendix 9 EF. Non-compressor, 1/2" Ball - Valve	0.1572

ID	Geographic Location	Device Type	Bleed Rate	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	Emission Factor (Mscf/day/dev)
N/A	93313	C	N/A	N/A	09/25/17	N/A	11/30/16	248	34.63	Appendix 9 EF. Non-compressor, 2" Reducer - Connector	0.1399
N/A	93313	C	N/A	N/A	09/25/17	N/A	11/30/16	248	34.63	Appendix 9 EF. Non-compressor, 2" Reducer - Connector	0.1399
N/A	93313	C	N/A	N/A	09/25/17	N/A	11/30/16	248	34.63	Appendix 9 EF. Non-compressor, 1/2" Threaded - Connector	0.1399
N/A	93313	C	N/A	N/A	09/25/17	N/A	11/30/16	248	34.63	Appendix 9 EF. Non-compressor, 1/2" Threaded - Connector	0.1399
N/A	93313	V	N/A	N/A	09/25/17	N/A	11/30/16	248	38.91	Appendix 9 EF. Non-compressor, 24" Ball - Valve	0.1572
N/A	93313	V	N/A	N/A	09/25/17	N/A	11/30/16	248	38.91	Appendix 9 EF. Non-compressor, 8" Ball - Valve	0.1572
N/A	93313	V	N/A	N/A	09/25/17	N/A	11/30/16	248	38.91	Appendix 9 EF. Non-compressor, 6" Ball - Valve	0.1572
N/A	93313	C	N/A	N/A	09/26/17	N/A	11/30/16	247	34.56	Appendix 9 EF. Non-compressor, 3/4" Plug - Connector	0.1399
N/A	93313	C	N/A	N/A	09/26/17	N/A	11/30/16	247	34.56	Appendix 9 EF. Non-compressor, 3/4" Plug - Connector	0.1399
N/A	93313	C	N/A	N/A	09/26/17	N/A	11/30/16	247	34.56	Appendix 9 EF. Non-compressor, 3/4" Plug - Connector	0.1399
N/A	93313	V	N/A	N/A	09/26/17	N/A	11/30/16	247	38.83	Appendix 9 EF. Non-compressor, 24" Ball - Valve	0.1572
N/A	93001	V	N/A	N/A	09/27/17	N/A	11/28/16	248	38.91	Appendix 9 EF. Non-compressor, 6" Ball - Valve	0.1572
N/A	93001	V	N/A	N/A	09/27/17	N/A	11/28/16	248	38.91	Appendix 9 EF. Non-compressor, 6" Ball - Valve	0.1572
N/A	93001	C	N/A	N/A	09/27/17	N/A	11/28/16	248	34.63	Appendix 9 EF. Non-compressor, 4" Flange - Connector	0.1399
N/A	93001	V	N/A	N/A	09/27/17	N/A	11/28/16	248	38.91	Appendix 9 EF. Non-compressor, 1/2" Regualtor - Valve	0.1572
N/A	93001	V	N/A	N/A	09/27/17	N/A	11/28/16	248	38.91	Appendix 9 EF. Non-compressor, 12" Ball - Valve	0.1572
N/A	93001	V	N/A	N/A	09/28/17	N/A	11/28/16	247	38.83	Appendix 9 EF. Non-compressor, 2" Ball - Valve	0.1572
N/A	93001	V	N/A	N/A	09/28/17	N/A	11/28/16	247	38.83	Appendix 9 EF. Non-compressor, 6" Daniel - Valve	0.1572
N/A	93001	V	N/A	N/A	09/28/17	N/A	11/28/16	247	38.83	Appendix 9 EF. Non-compressor, 6" Daniel - Valve	0.1572
N/A	93001	V	N/A	N/A	09/28/17	N/A	11/28/16	247	38.83	Appendix 9 EF. Non-compressor, 6" Daniel - Valve	0.1572
N/A	93001	V	N/A	N/A	09/28/17	N/A	11/28/16	247	38.83	Appendix 9 EF. Non-compressor, 6" Ball - Valve	0.1572
N/A	93001	V	N/A	N/A	09/28/17	N/A	11/28/16	247	38.83	Appendix 9 EF. Non-compressor, 6" Ball - Valve	0.1572
N/A	93001	C	N/A	N/A	09/28/17	N/A	11/28/16	247	34.56	Appendix 9 EF. Non-compressor, 1" Reducer - Connector	0.1399
N/A	93001	C	N/A	N/A	09/28/17	N/A	11/28/16	247	33.14	GHG Subpart W data - Table 3 for Compressor - Connector component (5.59 scfh). Compressor, 2" Union - Connector	0.1342
N/A	93001	C	N/A	N/A	09/28/17	N/A	11/28/16	247	33.14	GHG Subpart W data - Table 3 for Compressor - Connector component (5.59 scfh). Compressor, 1" Reducer - Connector	0.1342
N/A	93001	V	N/A	N/A	09/28/17	N/A	11/28/16	247	38.83	Appendix 9 EF. Non-compressor, 6" Ball - Valve	0.1572

Sum Total **15,044**

SoCalGas, June 15, 2018

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 - 2018 June Report

Appendix 3 - Rev. 03/31/18

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	Geographic Location
4	N/A	N/A	365	N/A	132.2	Condensate Tank*	92225
1	N/A	N/A	365	N/A	32.9	Aboveground Waste Condensate Vessel*	92365
2	N/A	N/A	365	N/A	110.2	Scrubber*	93313
				Sum Total	275.3		

*Based on Engineering Estimate, see Appendix 9 line 19 column E.

Appendix 3 - Rev. 03/31/18

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
Operating Mode: Pressurized Operating (hours)	
Operating Mode: Pressurized Idle (hours)	
Operating Mode: Depressurized Idle (hours)	
Emission Factor: Pressurized Operating (scf/hr)	
Emission Factor: Pressurized Idle (scf/hr)	
Emission Factor: Depressurized Idle (scf/hr)	
Annual Emissions (Mscf)	

Column Heading	Description and Definition of Required Contents (IF not self-explanatory)
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 Leaks

Column Heading	Description and Definition of Required Contents (IF not self-explanatory)
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	
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.

Column Heading	Description and Definition of Required Contents (IF not self-explanatory)
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>
Emission Factor (Mscf/day)	
Annual Emissions (Mscf)	
Explanatory Notes / Comments	

Storage Tanks	
Total Number	
Discovery Date (DD/MM/YY)	

Column Heading	Description and Definition of Required Contents (IF not self-explanatory)
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)	