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ConocoPhillips Lake Charles Refinery
Emission Source Calculation Methodology

Permit:	**Area D**
Emission Point:	**NA**
Equipment ID:	**Fugitive Components**
Description:	**Full-Scale Remediation System Process Fugitives**
Source Type:	**Tower**

Average Emissions

Component	Number of Components	Safety Factor	Number of Components	EF lb/hr-comp	Emissions (lb/hr)	hr/yr	Emissions tpy
Compressor Seals - Double	0	2	0	0.000	0.00	8760	0.000
Compressor Seals - Single	0	2	0	0.070	0.00	8760	0.000
Flanges - G	0	2	0	0.000	0.00	8760	0.000
Flanges - HL	0	2	0	0.000	0.00	8760	0.000
Flanges - LL	198	2	396	0.000	0.07	8760	0.320
Pump Seals - HL	*0*	2	*0*	*0.032*	*0.00*	*8760*	*0.000*
Pump Seals - LL Double	0	2	0	0.000	0.00	8760	0.000
Pump Seals - LL Single	18	2	36	0.038	1.36	8760	5.944
Relief Valves - Atm	0	2	0	0.011	0.00	8760	0.000
Relief Valves - Closed	0	2	0	0.011	0.00	8760	0.000
Relief Valves - Flare	0	2	0	0.000	0.00	8760	0.000
Sample Cnx - G	0	2	0	0.001	0.00	8760	0.000
Sample Cnx - HL	0	2	0	0.017	0.00	8760	0.000
Sample Cnx - LL	0	2	0	0.017	0.00	8760	0.000
Valves - G	0	2	0	0.002	0.00	8760	0.000
Valves - HL	0	2	0	0.000	0.00	8760	0.000
Valves - LL	90	2	180	0.001	0.18	8760	0.796

Emissions Summary

Pollutant	Average Emissions (lb/hr)	Average Emissions (lb/day)	Annual Emissions tpy
Total VOC	1.612	38.68	7.060
1,2-Dichloroethane	1.612	38.68	7.060