

Emission Sources - Represented Emission Rates

Registration Number 21686

This table lists the represented emission rates and all sources of air contaminants on the applicant's property covered by this registration. The emission rates shown are those derived from information submitted as part of the registration for PBR.

Air Contaminants Data

ESTIMATED EMISSIONS																	
EPN / Emission Source	VOC		NOx		CO		PM ₁₀ /PM _{2.5}		SO ₂		H ₂ S		CH ₂ O*		HAPs		
	lbs/hr	tpy	lbs/hr	tpy	lbs/hr	tpy	lbs/hr	tpy	lbs/hr	tpy	lbs/hr	tpy	lbs/hr	tpy	lbs/hr	tpy	
17E / electric driven compressor engine	No emissions from products of combustion since the compressor engine is electric driven.																
17F / 2,000 hp Clark TLAB-6 compressor engine	1.92	8.40	22.00	96.50	17.00	74.50	0.77	3.38	0.01	0.05			0.88	3.86	0.88**	3.86**	
26F / 1,665 hp Caterpillar G3606LE compressor engine	1.51	6.62	2.57	11.20	1.83	8.03	0.11	0.50	0.01	0.04			0.19	0.84	0.19**	0.84**	
COMP26F-BD / Compressor 26F blowdowns***	1.50	0.07									1.50	0.07					
TANK-1 / slop oil tank	0.77	3.35									0.01	0.06			<0.01	0.02	
LOAD / Truck loading	23.36	<0.01									<0.01	<0.01			<0.01	<0.01	
FUG-1 / Site fugitives	0.31	1.37									0.04	0.19			0.01	0.06	
TOTAL EMISSIONS (lbs/hr):	29.37		24.57		18.83		0.88		0.02		1.55		1.07		1.08		
TOTAL EMISSIONS (TPY):		19.81		107.70		82.53		3.88		0.09		0.32		4.70		4.78	
MAXIMUM OPERATING SCHEDULE:			Hours/Day		24		Days/Week		7		Weeks/Year		52		Hours/Year		8,760

* Formaldehyde emissions are included in the HAP and VOC emissions, and HAPs that are classified as VOCs are included in the VOC emissions.

** The company stated that HAP emissions for the engines include formaldehyde only.

*** Planned MSS emissions from blowdowns for the 1,665 hp Caterpillar G3606LE compressor engine (EPN 26F) are based 90 blowdowns per year, 1 blowdown per hour, 618.74 SCF per blowdown, and 1.5 lbs of VOC and 1.5 lb of H₂S per blowdown (EPN COMP26F-BD). No other planned MSS emissions have been represented or reviewed for this registration.

- (1) Emission point identification - either specific equipment designation or emission point number from plot plan.
- (2) Specific point source name. For fugitive sources, use area name or fugitive source name.
- (3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
- HAP - hazardous air pollutant as listed in § 112(b) of the Federal Clean Air Act or Title 40 Code of Federal Regulations Part 63, Subpart C
- CH₂O - formaldehyde
- NO_x - total oxides of nitrogen
- CO - carbon monoxide
- PM₁₀ - total particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}, as represented
- PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter
- SO₂ - sulfur dioxide
- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations. Emission values should be used for federal applicability.

Effective
Date:

September 14, 2011