

Emission Sources - Certified Emission Rates

Registration Number 98627

This table lists the certified 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

CERTIFIED SITEWIDE EMISSIONS															
EPN / Emission Source	Specific VOC or Other Pollutants	VOC		NOx		CO		PM ₁₀ /PM _{2.5}		SO ₂		CH ₂ O*		Other	
		lbs/hr	tpy	lbs/hr	tpy	lbs/hr	tpy	lbs/hr	tpy	lbs/hr	tpy	lbs/hr	tpy	lbs/hr	tpy
ENG1 (MC1596) / 95 hp Caterpillar G3304 NA flash gas compressor engine (Serial Number N4F02310)		0.14	0.60	3.30	14.46	0.33	1.46	0.01	0.06	<0.01	<0.01	0.06	0.27		
ENG1 / Compressor blowdowns**		22.49	0.23												
HT / 0.50 MMBtu/hr heater treater		<0.01	0.01	0.05	0.22	0.04	0.18	<0.01	0.02	<0.01	<0.01				
TANK1 / 400 bbl produced water tank		<0.01	<0.01												
TANK2 / 400 bbl crude oil tank		0.07	0.29												
TANK3 / 400 bbl crude oil tank		0.07	0.29												
TANK4 / 400 bbl crude oil tank		0.07	0.29												
COMB / 3.60 MMBtu/hr MRW combustor		0.79	3.46	0.35	1.35	0.29	1.27	0.03	0.13	<0.01	<0.01				
C LOAD / Crude loading		21.84	14.31												
PW LOAD / Produced water loading		0.22	0.04												
FUG / Sitewide fugitives (5)		1.19	5.22												
TOTAL EMISSIONS (lbs/hr):		46.88		3.70		0.66		0.04		<0.01		0.06			
TOTAL EMISSIONS (TPY):			24.74		16.03		2.91		0.21		0.01		0.27		
MAXIMUM OPERATING SCHEDULE:		Hours/Day		Days/Week		Weeks/Year		Hours/Year		Days/Year		Hours/Year		Days/Year	
		24		7		52		8,760							

* Formaldehyde emissions are included in the total VOC emissions.

** Planned MSS emissions from compressor blowdowns for the 95 hp Caterpillar G3304 NA flash gas compressor engine (EPN ENG1 - MC1596) are based on 1,000 SCF per blowdown, 1 hour per blowdown, and 20 blowdowns per year. No other planned MSS emissions have been represented or reviewed.

- (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
 CH₂O - formaldehyde
 NO_x - total oxides of nitrogen
 CO - carbon monoxide
 SO₂ - sulfur dioxide
 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
- (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.

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Effective
Date:

October 26, 2011
