

Emission Sources - Certified Emission Rates

Registration Number 96988

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 (MC1734) / 145 hp Caterpillar G3306 NA flash gas compressor engine equipped with NSCR catalyst (Serial Number: G6X02762)		0.42	1.82	0.64	2.79	1.28	5.59	0.02	0.10	<0.01	<0.01	0.10	0.42		
ENG1 / Compressor blowdowns**		11.18	0.11												
ENG2 (MC1348) / 72 hp Arrow VRG 330CF compressor engine equipped with NSCR catalyst (Serial Number: C-2330-CF)		0.06	0.26	0.44	1.94	0.76	3.33	0.01	0.05	<0.01	<0.01	0.01	0.05		
ENG2 / Compressor blowdowns**		11.18	0.11												
PU / 1.00 MMBtu/hr heater treater		0.01	0.04	0.10	0.44	0.08	0.35	0.01	0.04	<0.01	<0.01				
HT / 0.75 MMBtu/hr heater treater		<0.01	0.01	0.07	0.31	0.06	0.26	0.01	0.04	<0.01	<0.01				
TANK1 / 300 bbl produced water tank		<0.01	0.01												
TANK2 / 300 bbl produced water tank		<0.01	0.01												
TANK4 / 300 bbl crude oil tank		0.01	0.02												
TANK5 / 400 bbl crude oil tank		0.19	0.82												
COMB / 5.70 MMBtu/hr Leed combustor		0.79	3.46	0.56	2.45	0.47	2.06	0.04	0.18	<0.01	<0.01				
C LOAD / Crude loading		35.68	12.85												
PW LOAD / Produced water loading		0.36	0.90												
FUG / Sitewide fugitives (5)		0.81	3.55												
TOTAL EMISSIONS (lbs/hr):		60.71		1.81		2.65		0.09		0.01		0.11			
TOTAL EMISSIONS (TPY):			24.00		7.93		11.59		0.41		0.02		0.47		
MAXIMUM OPERATING SCHEDULE:		Hours/Day		24	Days/Week		7	Weeks/Year		52	Hours/Year		8,760		

* Formaldehyde emissions are included in the total VOC emissions.

** Planned MSS emissions from compressor blowdowns for the 145 hp Caterpillar G3306 NA flash gas compressor engine (EPN ENG1 - MC1734) and the 72 hp Arrow VRG 330CF compressor engine (ENG2 - MC1348) are based on 1,000 SCF per blowdown, 1 hour per blowdown, and 20 blowdowns per year for each engine. 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
- NO_x - total oxides of nitrogen

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- 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.

Effective
Date:

August 8, 2011