

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 3161

This table lists the maximum allowable emission rates and all sources of air contaminants on the applicant's property covered by this permit. The emission rates shown are those derived from information submitted as part of the application for permit and are the maximum rates allowed for these facilities. Any proposed increase in emission rates may require an application for a modification of the facilities covered by this permit.

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source		Air Contaminant		<u>Emission Rates *</u>	
	Name (2)	Name (3)	lb/hr	TPY		
101A	Primary Compressor Vent		VOC		0.10	0.44
101B	Primary Compressor Vent		VOC		0.10	0.44
101C	Primary Compressor Vent		VOC		0.10	0.44
101D	Primary Compressor Vent		VOC		0.10	0.44
101E	Primary Compressor Vent		VOC		0.10	0.44
101F	Primary Compressor Vent		VOC		0.10	0.44
101G	Primary Compressor Vent		Emergency/Upset Use Only			
102	Hyper Compressor Vent		VOC		0.50	2.20
103	Reactor 100 Emergency Vent		Emergency/Upset Use Only			
104	Spin Dryer		VOC		**	**
			PM		0.08	0.32
105	Line 1 Process Fugitives (4)		VOC		5.78	25.30
201A	Primary Compressor Vent		VOC		0.10	0.44
201B	Primary Compressor Vent		VOC		0.10	0.44
201C	Primary Compressor Vent		VOC		0.10	0.44

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Emission Name (3)	Source lb/hr	Air Contaminant TPY	Emission Rates*	Point No. (1)	Name (2)
201D		Primary Compressor Vent	VOC	0.10	0.44
201E		Primary Compressor Vent	VOC	0.10	0.44
201F		Primary Compressor Vent	VOC	0.10	0.44
201G		Primary Compressor Vent	Emergency/Upset Use Only		
202		Hyper Compressor Vent	VOC	0.50	2.20
203		Reactor 200 Emergency Vent	Emergency/Upset Use Only		
204		Spin Dryer	VOC	**	**
			PM	0.08	0.32
205		Line 2 Process Fugitives (4)	VOC	5.25	23.01
501		MSR Heater B-501	VOC	<0.01	<0.01
			CO	<0.01	0.02
			NO _x	0.02	0.08
			SO ₂	<0.01	<0.01
			PM	<0.01	<0.01
502		MSR Heater B-502	VOC	<0.01	<0.01
			CO	<0.01	0.02
			NO _x	0.02	0.11
			SO ₂	<0.01	<0.01
			PM	<0.01	<0.01
503A		Analyzer Vent	VOC	0.37	0.45
503B		Analyzer Vent	VOC	0.01	<0.01
503C		Analyzer Vent	VOC	0.03	0.04
503D		Analyzer Vent	VOC	0.01	<0.01

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Emission Name (3)	Source lb/hr	Air Contaminant TPY	Emission Rates*	Point No. (1)	Name (2)
503E		Analyzer Vent	VOC	0.01	<0.04
504		ERU Fugitives (4)	VOC	5.34	23.38
601		Dust Collector	PM	0.25	1.00
602A		Hopper Vent	PM	0.03	0.13
602B		Hopper Vent	PM	<0.01	<0.04
603A		Hopper Vent	PM	0.03	0.13
603B		Hopper Vent	PM	<0.01	<0.01
604		Line 1 Blend Silo	VOC	27.72	98.11
		Dust Collector	PM	3.30	13.24
605		Line 2 Blend Silo	VOC	20.12	88.11
		Dust Collector	PM	3.30	13.24
606		Cyclone	VOC	**	**
			PM	3.30	13.24
607		Cyclone	VOC	**	**
			PM	3.30	13.24
608		Cyclone	VOC	**	**
			PM	3.30	13.24
609		Cyclone	VOC	**	**
			PM	3.30	13.24
612		Storage Tank Area	VOC	64.10	181.92
		Fugitives (4)			
612-D645		Slop Tank	VOC	0.05	<0.01
612-D716		Diesel Tank	VOC	1.10	<0.01

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Emission Name (3)	Source lb/hr	TPY	Air Contaminant	Emission Rates*	Point No. (1)	Name (2)
612-D716A		Diesel Tank		VOC	1.10	<0.01
612-F102		Coolant Tank		VOC	0.03	<0.01
612-F108		Oil Tank		VOC	0.03	<0.01
612-F109		Oil Tank		VOC	0.03	<0.01
612-F670		OMS Tank		VOC	0.64	<0.01
612-F706		Oil Tank		VOC	0.03	<0.01
614		Storage Silo/Loading Fugitives (4)		PM	0.03	0.11
615A		Sample Receiver		PM	<0.01	0.02
615B		Sample Receiver		PM	<0.01	0.02
615C		Sample Receiver		PM	<0.01	0.02
616A		Hopper Vent		PM	0.03	0.13
616B		Hopper Vent		PM	<0.01	<0.01
617A		Hopper Vent		PM	0.03	0.13
617B		Hopper Vent		PM	<0.01	<0.01
701		Flare		VOC	3.89	17.04
				CO	1.68	7.38
				NO _x	0.20	0.86
702		Boiler B-701		VOC	0.10	0.45
				CO	1.30	5.70
				NO _x	5.16	22.60
				SO ₂	0.02	0.10

		PM	0.18	0.81
703	Boiler B-701A	VOC	0.08	0.40
		CO	1.53	6.70
		NO _x	6.13	26.80
		SO ₂	0.01	0.05
		PM	0.45	1.99
704	Boiler B-701B	VOC	0.10	0.41
		CO	1.30	5.20
		NO _x	4.56	18.24
		SO ₂	0.02	0.09
		PM	0.18	0.74
706	Utility Area Fugitives (4)	VOC	1.33	6.64
714	Waste Water Area Fugitives (4)	VOC	<0.01	<0.01
722	Cooling Tower	VOC	Emergency/Upset Use Only	

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- (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) PM - particulate matter
VOC - volatile organic compounds as defined in General Rule 101.1
NO_x - total oxides of nitrogen
SO₂ - sulfur dioxide
CO - carbon monoxide

(4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

** VOC emission limits from EPNs 105, 205, 606, 607, 608, and 609 are reflected in the emission rates for EPNs 604 and 605. Compliance with the VOC emission limits for these EPNs shall be demonstrated per Special Condition Nos. 4 and 5.

* Emission rates are based on and the facilities are limited by the following maximum operating schedule:

Hrs/day___Days/week___Weeks/year___or Hrs/year 8,760

Dated _____