

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 6860

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 *	Source	Air Contaminant	<u>Emission Rates</u>	
Point No. (1)		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

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

## AIR CONTAMINANTS DATA

<u>Emission Rates*</u>	Source	Air Contaminant	<u>Emission</u>	
<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	
<u>TPY</u>				
201C	Primary Compressor Vent	VOC	0.10	0.44
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
301	Hypercompressor Plunger Coolant Vent	VOC	0.50	0.10
302	Reactor Emergency Release	Emergency/Upset Use Only		
307	Dryer Exhaust Vent	PM	0.30	0.10
501	MSR Heater B-501	VOC	<0.01	<0.01
		CO	<0.01	0.02
		NO <sub>x</sub>	0.02	0.08
		SO <sub>2</sub>	<0.01	<0.01
		PM	<0.01	<0.01

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

## AIR CONTAMINANTS DATA

<u>Emission Rates*</u>	Source	Air Contaminant	<u>Emission</u>	
<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	
<u>TPY</u>				
502	MSR Heater B-502	VOC	<0.01	<0.01
		CO	<0.01	0.02
		NO <sub>x</sub>	0.02	0.11
		SO <sub>2</sub>	<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
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	69.24	268.02
	Dust Collector	PM	3.30	13.24
605	Line 2 Blend Silo	VOC	**	**
	Dust Collector	PM	3.30	13.24

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

## AIR CONTAMINANTS DATA

<u>Emission Rates*</u>	<u>Source</u>	<u>Air Contaminant</u>	<u>Emission</u>	
<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	
<u>TPY</u>				
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 Fugitives (4)	VOC	64.10	181.92
612-D645	Slop Tank	VOC	0.05	<0.01
612-D716	Diesel Tank	VOC	1.10	<0.01
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

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

## AIR CONTAMINANTS DATA

<u>Emission Rates*</u>	Source	Air Contaminant	<u>Emission</u>	
<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	
<u>TPY</u>				
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
618	Transfer Cyclone	VOC	**	**
		PM	1.56	0.30
619	Sample Cyclone Vent	PM	0.002	0.004
620	Flotriator Cyclone	PM	1.56	0.10
621	Scalperator Cyclone	PM	1.56	0.13
631	MB Unloading Filter	PM	0.012	0.0007
632	MB and Rerun Cyclone Fugitives	PM	0.06	0.01
701	Flare	VOC	3.89	17.04
		CO	1.68	7.38
		NO <sub>x</sub>	0.20	0.86
702	Boiler B-701	VOC	0.10	0.45

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

## AIR CONTAMINANTS DATA

<u>Emission Rates*</u>	<u>Source</u>	<u>Air Contaminant</u>	<u>Emission</u>	
<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	
<u>TPY</u>				
		CO	1.30	5.70
		NO <sub>x</sub>	5.16	22.60
		SO <sub>2</sub>	0.02	0.10
		PM	0.18	0.81
703	Boiler B-701A	VOC	0.08	0.40
		CO	1.53	6.70
		NO <sub>x</sub>	6.13	26.80
		SO <sub>2</sub>	0.01	0.05
		PM	0.45	1.99
704	Boiler B-701B	VOC	0.10	0.41
		CO	1.30	5.20
		NO <sub>x</sub>	4.56	18.24
		SO <sub>2</sub>	0.02	0.09
		PM	0.18	0.74
706	Utility Area	VOC	1.33	6.64
	Fugitives (4)			
714	Wastewater Area	VOC	<0.01	<0.01
	Fugitives (4)			
722	Cooling Tower	VOC	Emergency/Upset Use Only	
F-300	Fugitives	VOC	0.06	1.96
		PM	0.04	0.06

(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

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

<u>Emission Rates*</u>	<u>Source</u>	<u>Air Contaminant</u>	<u>Emission</u>
<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>

---

TPY

NO<sub>x</sub> - total oxides of nitrogen  
SO<sub>2</sub> - 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 Emission Point Nos. (EPNs) 104, 204, 605, 606, 607, 608, 609, and 618 are reflected in the emission rates for EPN 604. Compliance with the VOC emission limits for these EPNs shall be demonstrated per Special Condition Nos. 3 and 4.

\* 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\_\_\_\_\_