

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 18836

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 Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY
HST-101	Vent	Toluene	1.0	0.2
		Hexane/Heptane	57.0	11.7
		Tetrahydrofuram	3.8	0.6
HV-124	Vent	Hexane/Heptane	9.0	3.3
HV-125	Vent	VOC	2.0	0.30
HT-171	Tank	Toluene	2.8	0.1
HV-305	Vent	Octanol	0.2	0.01
HF-405	Filter	Particulates	17.0	0.9
HX-411	Extruder	VOC as Hexane	7.8	3.3
		Particulates	1.9	1.9
HF-415	Baghouse	Particulates	0.3	0.4
HBL-431	Silo	Particulates	4.5	6.3
		VOC (5)	18.0	36.0
HT-441	Silo	Particulates	2.0	1.2
		VOC (5)		
HTB-451	Silo	Particulates	1.0	0.2
		VOC (5)		
HF-454	Baghouse	Particulates	1.5	1.8
		VOC (5)		

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY
HF-456	Baghouse	Particulates VOC (5)	3.2	2.4
HQ-460	Pellet Loading	Particulates VOC (5)	3.0	1.1
HF-463	Baghouse	Particulates VOC	0.5 0.1	0.3 0.3
HF-481	Baghouse	Particulates	6.0	1.4
HT-601	Tank	Hexane	4.1	0.9
HT-602	Tank	Hexane	23.3	2.7
HT-606	Tank	Hexane	32.1	1.6
HT-608	Tank	Seal Oil	0.3	0.01

BOILERS: Case 1 - Natural Gas

HH-731A	Boiler (6)	VOC	2.4	1.0
		CO	26.0	12.0
		NOx	10.4	46.0
		SO2	0.6	0.2
		Particulates	2.4	1.0
HH-731B	Boiler (6)	VOC	2.4	1.0
		CO	26.0	12.0
		NOx	10.4	46.0
		SO2	0.6	0.2
		Particulates	2.4	1.0

BOILERS: Case 2 - No.2 Fuel Oil

HH-731A	Boiler (6)	VOC	1.2	0.6
---------	------------	-----	-----	-----

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
		CO	29.4	12.7
		SO3	2.0	1.2
		SO2	120.0	78.0
		NOx	11.6	50.0
		Particulates	12.0	5.0
HH-731B	Boiler (6)	VOC	1.2	0.6
		CO	29.4	12.7
		SO3	2.0	1.2
		SO2	120.0	78.0
		NOx	11.6	50.0
		Particulates	12.0	5.0
BOILERS: Case 3 - Combination of natural gas plus by-product liquid and gaseous fuels.				
HH-731A	Boiler (6)	VOC	1.54	0.67
		CO	27.4	12.0
		SO2	0.47	0.2
		NOx	11.4	50.0
		Particulates	35.4	47.4
		HCl	26.0	11.4
HH-731B	Boiler (6)	VOC	1.54	0.67
		CO	27.4	12.0
		SO2	0.47	0.2
		NOx	11.4	50.0
		Particulates	35.4	47.4
		HCl	26.0	11.4
HT-735	Tank	VOC	1.4	0.6
HT-797	Tank - Diesel Fuel	VOC	0.2	0.01
HT-793	Tank - Diesel Fuel	VOC	0.2	0.01
HT-794	Tank - Diesel Fuel	VOC	0.2	0.01

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY
HT-798	Tank	Diesel Fuel	0.2	0.01
HT-799	Tank	Gasoline	4.0	0.2
HT-801	Tank	Hexane	2.6	0.03
Pilot Plant	Pilot Plant	VOC	0.23	1.0
		Particulates	0.23	1.0
Flare	Flare	VOC	46.5	18.5
Fugitive	Fugitives(4)	VOC	22.42	98.2
WWTP	Wastewater (4) Treatment	VOC	0.43	1.9
CB1	Building	VOC	1.20	5.27
	Fugitives (4)	Particulates	0.30	1.3
CB2	Building	VOC	0.55	2.41
	Fugitives (4)	Particulates	0.16	0.7

- (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 General Rule 101.1
 NOx - total oxides of nitrogen
 SO2 - sulfur dioxide
 SO3 - sulfur trioxide
 CO - carbon monoxide
 HCl - hydrogen chloride
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) The VOC emissions for all dry pellet handling equipment including Emission Point Numbers HBL-431, HT-441, HTB-451, HF-454, HF-456, and HQ-460 are combined into HBL-431 for

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

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

purposes of this table.

(6) The total emissions from both boilers may not exceed 1.5 times the emissions from one boiler.

* 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 _____