

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 19806

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, sources, and related activities. 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)	Emission Rates	
			lbs/hour	TPY (4)
EB-1B-505	Dehydro No. 2 Heat Recovery Boiler Dehydro No. 2 Air Heater Dehydro No. 2 Regen Gas Generator <b>(Normal Operations)</b>	NOx	7.23	—
		CO	2.59	—
		VOC	2.01	--
		PM/PM10/PM2.5	3.37	--
		SO2	29.33	--
		NH3	8.99	--
EB-1B-505 (8)	Dehydro No. 2 Heat Recovery Boiler Dehydro No. 2 Air Heater Dehydro No. 2 Regen Gas Generator <b>(MSS Operations)</b>	NOx	4.25	--
		CO	25.86	--
		VOC	0.46	--
		PM/PM10/PM2.5	0.63	--
		SO2	29.11	--
EB-1B-505	Dehydro No. 2 Heat Recovery Boiler Dehydro No. 2 Air Heater Dehydro No. 2 Regen Gas Generator <b>(Annual Limits)</b>	NOx	--	32.22
		CO	--	14.82
		VOC	--	8.81
		PM/PM10/PM2.5	--	14.76
		SO2	--	38.60
		NH3	--	39.37
EB-1B-506	Dehydro No. 2 Heat Recovery Boiler	NOx	4.66	--

		CO	33.74	--
		VOC	1.16	--
		PM/PM10/PM2.5	2.15	--
		SO2	0.18	--
		NH3	13.00	--
EB-1B-506 (8)	Dehydro No. 2 Heat Recovery Boiler Dehydro No. 2 Turbine <b>(MSS Operations)</b>	NOx	46.60	--
		CO	337.35	--
		VOC	1.16	--
		PM/PM10/PM2.5	2.15	--
		SO2	0.18	--
EB-1B-506	Dehydro No. 2 Heat Recovery Boiler Dehydro No. 2 Turbine <b>(Annual Limits)</b>	NOx	--	26.70
		CO	--	193.30
		VOC	--	5.07
		PM/PM10/PM2.5	--	9.44
		SO2	--	0.79
		NH3	--	56.96
EB-1B-2501	Dehydro No. 2 Unit Feed Heater	NOx	2.60	11.39
		CO	2.77	12.12
		VOC	0.35	1.54
		PM/PM10/PM2.5	0.48	2.12
		SO2	0.04	0.17
F-20	Dehydro 2 Unit Fugitives (5)	VOC	0.52	2.29
		NH3	0.93	4.08
DH2CAT-MSS	DH2 Catalyst Change Out Fugitives	PM/PM10/PM2.5	0.39	0.04

- (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  
NOx - total oxides of nitrogen  
SO2 - sulfur dioxide  
PM - total particulate matter, suspended in the atmosphere, including PM10 and PM2.5, as represented  
PM10 - total particulate matter equal to or less than 10 microns in diameter, including PM2.5, as represented  
PM2.5 - particulate matter equal to or less than 2.5 microns in diameter  
CO - carbon monoxide  
NH3 – ammonia
- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (5) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate. Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
- (6)
- (7) MSS lb/hr limits apply only during each clock hour that includes one or more minutes of MSS activities. During all other clock hours, the normal lb/hr limits apply.

Date: July 28, 2011