

# 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, DH2 Reactors, Dehydro No. 2 Regen Gas Generator Turbine	NOx	26.21	76.87
		CO	56.35	134.37
		VOC	3.79	14.44
		PM	7.99	29.00
		PM <sub>10</sub>	7.99	29.00
		PM <sub>2.5</sub>	7.99	29.00
		SO <sub>2</sub>	21.81	20.07
		NH <sub>3</sub>	8.40	35.57
EB-1B-505MSS	Dehydro No. 2 Heat Recovery Boiler, Dehydro No. 2 Air Heater, DH2 Reactors, Dehydro No. 2 Regen Gas Generator	NOx	29.75	4.46
		CO	44.67	6.70
		VOC	2.38	0.36
		PM	0.89	0.13
		PM <sub>10</sub>	0.89	0.13
		PM <sub>2.5</sub>	0.89	0.13
		SO <sub>2</sub>	0.07	0.01
EB-1B-506	Dehydro No. 2 Heat Recovery Boiler, Dehydro No. 2 Regen Gas Generator	NOx	6.61	26.87
		CO	3.95	16.48
		VOC	1.16	4.51
		PM	3.16	12.50
		PM <sub>10</sub>	3.16	12.50
		PM <sub>2.5</sub>	3.16	12.50

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		SO <sub>2</sub>	8.67	11.95
		NH <sub>3</sub>	4.79	20.01
EB-1B-506MSS	Dehydro No. 2 Heat Recovery Boiler, Dehydro No. 2 Regen Gas Generator	NOx	74.24	11.14
		CO	35.89	5.38
		VOC	2.15	0.32
		PM	3.15	0.47
		PM <sub>10</sub>	3.15	0.47
		PM <sub>2.5</sub>	3.15	0.47
		SO <sub>2</sub>	0.11	0.41
EB-1B-2501	Dehydro No. 2 Unit Feed Heater	NOx	2.94	12.88
		CO	3.28	14.36
		VOC	0.53	2.31
		PM	0.73	3.20
		PM <sub>10</sub>	0.73	3.20
		PM <sub>2.5</sub>	0.73	3.20
		SO <sub>2</sub>	0.06	0.25
F-20	Dehydro 2 Unit Fugitives (5)	VOC	0.54	2.37
		NH <sub>3</sub>	0.93	4.08
DH2CAT-MSS	DH2 Catalyst Change Out Fugitives	PM	0.39	0.04
		PM <sub>10</sub>	0.39	0.04
		PM <sub>2.5</sub>	0.39	0.04
PHEN-GEN	Emergency Diesel Generator	NOx	0.88	0.05
		CO	1.10	0.06
		VOC	0.88	0.05
		PM	0.22	0.01

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		PM <sub>10</sub>	0.22	0.01
		PM <sub>2.5</sub>	0.22	0.01
		SO <sub>2</sub>	0.01	0.01
T-IF-924	Dehydro No.2 Unit Tank IF-924	VOC	0.96	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

NO<sub>x</sub> - total oxides of nitrogen

SO<sub>2</sub> - sulfur dioxide

PM - total particulate matter, suspended in the atmosphere, including PM<sub>10</sub> and PM<sub>2.5</sub>, as represented

PM<sub>10</sub> - total particulate matter equal to or less than 10 microns in diameter, including PM<sub>2.5</sub>, as represented

PM<sub>2.5</sub> - particulate matter equal to or less than 2.5 microns in diameter

CO - carbon monoxide

NH<sub>3</sub> - ammonia

(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.

Date: March 14, 2018