

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 6455

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)	Emission Rates *	
			lb/hr	TPY
1a	Gas Turbine No. 1	VOC	0.17	0.74
		NO <sub>x</sub>	3.32	14.52
		CO	11.38	49.84
		SO <sub>2</sub>	0.04	0.17
		PM 0.08	0.33	
1b	Gas Turbine No. 2	VOC	0.17	0.74
		NO <sub>x</sub>	3.32	14.52
		CO	11.38	49.84
		SO <sub>2</sub>	0.04	0.17
		PM 0.08	0.33	
1c	Gas Turbine No. 3	VOC	0.17	0.74
		NO <sub>x</sub>	3.32	14.52
		CO	11.38	49.84
		SO <sub>2</sub>	0.04	0.17
		PM 0.08	0.33	
2a	Boiler No. 1	VOC	0.20	0.88
		NO <sub>x</sub>	3.64	15.95
		CO	3.06	13.40
		SO <sub>2</sub>	0.02	0.10
		PM <sub>10</sub>	0.28	1.21
2c	Boiler No. 3	VOC	0.20	0.88
		NO <sub>x</sub>	3.64	15.95
		CO	3.06	13.40
		SO <sub>2</sub>	0.02	0.10
		PM <sub>10</sub>	0.28	1.21

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY
3a	Compressor No. 1	VOC	0.60	2.62
		NO <sub>x</sub>	15.43	67.59
		CO	2.76	12.07
		SO <sub>2</sub>	<0.01	0.01
		PM <sub>10</sub> 0.16	0.70	
3b	Compressor No. 2	VOC	0.60	2.62
		NO <sub>x</sub>	15.43	67.59
		CO	2.76	12.07
		SO <sub>2</sub>	<0.01	0.01
		PM <sub>10</sub> 0.16	0.70	
4	Regeneration Gas Heater No. 1	VOC	0.02	0.07
		NO <sub>x</sub>	0.42	1.22
		CO	0.35	1.03
		SO <sub>2</sub>	<0.01	0.01
		PM <sub>10</sub>	0.03	0.09
5	Regeneration Gas Heater	VOC	0.02	0.06
		NO <sub>x</sub>	0.37	1.09
		CO	0.31	0.91
		SO <sub>2</sub>	<0.01	0.01
		PM <sub>10</sub>	0.03	0.08
FUGITIVE-1	Pre-84 Fugitive Emissions (4)	VOC	0.93	4.09
FUGKKK	NSPS KKK Fugitive Emissions (4) (6)	VOC	1.23	5.40
8	Emergency Generator Engine(5)	VOC	0.53	0.01
		NO <sub>x</sub>	16.38	0.43
		CO	4.28	0.11
		SO <sub>2</sub>	1.53	0.04
		PM <sub>10</sub>	1.64	0.04

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
10	Cryogenic Unit Cooling Water Tower	VOC	0.72	3.15

Maintenance, Start-Up, and Shutdown

V-1	Vents and Blowdown	VOC	1100.0	8.00
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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) 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<sub>10</sub> - particulate matter of 10 microns or less  
 CO - carbon monoxide
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) These emissions were previously standard exempted.
- (6) FUGKKK is comprised of fugitive sources subject to NSPS KKK requirements. These sources include FUGITIVE-2 for wet gas compressors, FUGITIVE-3 for wet gas compression components, covered inlet components, covered components in VOC service, FUGITIVE-4 for amine unit fugitives, and FUGITIVE-5 for NSPS KKK affected sources with VOC content less than 10 percent by weight and are not in wet gas service.

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

\_\_\_\_\_Hrs/day\_\_\_\_\_Days/week\_\_\_\_\_Weeks/year or 8,760 Hrs/year

Dated June 14, 2007