

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 7553

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	Emission Rates	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
1	Incinerator No. 1	PM ₁₀	3.0	13.2
		NO _x	2.0	8.9
		CO	23.6	104
		VOC	1.0	4.4
		SO ₂	1.7	7.4
2	Incinerator No. 2	PM ₁₀	3.0	13.2
		NO _x	2.0	8.9
		CO	23.6	104
		VOC	1.0	4.4
		SO ₂	1.7	7.4

Maximum Hourly Turbine Emissions for Digester Gas Only

GT1	Gas Turbine Number 1	PM ₁₀	1.2
		NO _x	7.8
		CO	2.7
		VOC	0.0
		SO ₂	4.1
GT2	Gas Turbine Number 2	PM ₁₀	1.2
		NO _x	7.8
		CO	2.7
		VOC	0.0
		SO ₂	4.1

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

Maximum Hourly Turbine Emissions from Natural Gas/Digester Gas Mixture or Natural Gas Only

GT1	Gas Turbine Number 1	PM ₁₀	1.2	
		NO _x	35.2	
		CO	7.5	
		VOC	0.03	
		SO ₂	4.1	
GT2	Gas Turbine Number 2	PM ₁₀	1.2	
		NO _x	35.2	
		CO	7.5	
		VOC	0.03	
		SO ₂	4.1	

Maximum Hourly Turbine Emissions from Distillate Fuel Oil

GT1	Gas Turbine Number 1	PM ₁₀	2.3	
		NO _x	56	
		CO	7.6	
		VOC	2.2	
		SO ₂	19.2	
GT2	Gas Turbine Number 2	PM ₁₀	2.3	
		NO _x	56	
		CO	7.6	
		VOC	2.2	
		SO ₂	19.2	

Maximum Annual Turbine Emissions

GT1	Gas Turbine Number 1	PM ₁₀	4.2	
		NO _x	82	
		CO	7	
		VOC	1.7	
		SO ₂	14.9	

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			<u>lb/hr</u>	<u>TPY</u>
GT2	Gas Turbine Number 2	PM ₁₀	4.2	
		NO _x	82	
		CO	7	
		VOC	1.7	
		SO ₂	14.9	
ENG6 (4)	Engine 6	PM ₁₀	0.4	
		NO _x	14.8	
		CO	5.5	
		VOC	0.91	
		SO ₂	1.3	
ENG7 (4)	Engine 7	PM ₁₀	0.3	
		NO _x	10.1	
		CO	3.7	
		VOC	0.62	
		SO ₂	0.9	
ENG8 (4)	Engine 8	PM ₁₀	0.3	
		NO _x	10.1	
		CO	3.7	
		VOC	0.62	
		SO ₂	0.9	

(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) NO_x - oxides of nitrogen
 PM - particulate matter, suspended in the atmosphere, including PM₁₀
 PM₁₀ - particulate matter equal or less than 10 microns in diameter.
 Where PM is not listed, it shall be assumed that no particulate matter greater than 10 microns is emitted.

CO - carbon monoxide

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SO₂ - sulfur dioxide
VOC - volatile organic compounds

- (4) ENG6, 7, 8 are included for display purposes only. These engines are currently authorized under the 1976 version of Exemption 6. With the addition of Gas Turbines 1 and 2, the engines must curtail operation and claim authorization under 30 TAC Chapter 106.511 (Portable and Emergency Turbines and Engines) in order to comply with Special Condition No. 7. The emissions represented above will be the new annual allowables under 30 TAC §106.511.

* Emission rates are based on the following maximum operating schedule:

Hrs/day 24 Days/week 7 Weeks/year 52 or Hrs/year 8,736
for Incinerators

Hrs/day 24 Days/week 7 Weeks/year 52 or Hrs/year 8,760
for Turbines

Hrs/day Days/week Weeks/year or Hrs/year 876
for Engines

Dated_____