

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Numbers 41472 and PSD-TX-942

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
HRSG-1	GE-7241FA Turbine	NO _x	45.6	158.5
		CO	114.9	363.9
		VOC	19.7	45.5
		PM ₁₀	34.2	115.4
		SO ₂	14.2	49.4
		NH ₃ 23.6	82.3	
HRSG-2	GE-7241FA Turbine	NO _x	45.6	158.5
		CO	114.9	363.9
		VOC	19.7	45.5
		PM ₁₀	34.2	115.4
		SO ₂	14.2	49.4
		NH ₃ 23.6	82.3	
FWP-1	Firewater Pump Engine (4)	NO _x	12.4	3.1
		CO	2.7	0.7
		VOC	1.0	0.2
		PM ₁₀	0.9	0.2
		SO ₂	0.8	0.2
DIES-TK	Fuel Oil Storage Tank	VOC	0.28	<0.01
ACID-TK	Acid Storage Tank	H ₂ SO ₄	<0.01	<0.01
FUG-1	Power Block 1 Fugitive Emissions (5)	VOC	<0.01	<0.02
FUG-2	Power Block 2 Fugitive Emissions (5)	VOC	<0.01	<0.02

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
FUG-3	N.G. Meter Skid Fugitive Emissions (5)	VOC	<0.01	<0.02
FUG-NH3	Ammonia Fugitives (5)	NH ₃	<0.001	<0.001
CTVs 1 through 9	Cooling Tower Vents (6)	PM	1.4	6.0
		PM ₁₀	0.04	0.15
OWS-1	Oil/Water Separator	VOC	0.12	0.35
B-1	Auxiliary Boiler	NO _x	0.8	0.4
		CO	0.8	0.4
		VOC	0.4	0.2
		PM ₁₀	0.2	0.1
		SO ₂	0.02	0.02

- (1) Emission point identification - either specific equipment designation or emission point number (EPN).
- (2) Specific point source name. For fugitive sources use area name or fugitive source name.
- (3) NO_x - total oxides of nitrogen
CO - carbon monoxide
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
PM - particulate matter, suspended in the atmosphere, including PM₁₀.
PM₁₀ - particulate matter equal to 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.
SO₂ - sulfur dioxide
NH₃ - ammonia
H₂SO₄ - sulfuric acid
- (4) Emissions are based on non-emergency operation of 500 operating hours per year.
- (5) Fugitive emissions are an estimate based on component count and applicable fugitive emission factors.
- (6) Cooling tower PM and PM₁₀ emissions are an estimate only based on manufacturers' data. Cooling tower assembly has nine vent fan exhausts; emissions are sum-total of all nine exhausts.

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- * Emission rates are based on a combustion turbine generator (CTG) operating schedule of 8,760 hours/year per CTG and heat recovery duct burners operating a maximum of 4,000 hours/year per duct burner. Compliance with the annual emission limits shall be based on a rolling 12-month year rather than the calendar year. **(3/02)**

Note: All sources at the Duke Energy Kaufman plant, represented in the May 1999 permit application, are regulated under PSD and state regulations for NO_x, CO, SO₂, PM, and PM₁₀.