

Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 143912, PSDTX1510, N256

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)
MCPS1A	MCPS Combined Cycle Unit 1A (Turbine + DB)	NO _x	27.41	---
		NO _x MSS (6)	170	---
		CO	16.69	---
		CO MSS (6)	8000	---
		VOC	9.56	---
		VOC MSS (6)	2000	---
		SO ₂ (6)	10.47	---
		PM (6)	29.55	---
		PM ₁₀ (6)	29.55	---
		PM _{2.5} (6)	29.55	---
		H ₂ SO ₄ (6)	4.86	---
		NH ₃ (6)	36.27	---
		HAP (6)	5.20	---
MCPS1B	MCPS Combined Cycle Unit 1B (Turbine + DB)	NO _x	27.41	---
		NO _x MSS (6)	170	---
		CO	16.69	---
		CO MSS (6)	8000	---
		VOC	9.56	---
		VOC MSS (6)	2000	---
		SO ₂ (6)	10.47	---
		PM (6)	29.55	---
		PM ₁₀ (6)	29.55	---
		PM _{2.5} (6)	29.55	---
		H ₂ SO ₄ (6)	4.86	---
		NH ₃ (6)	36.27	---
		HAP (6)	5.20	---
MCPS1-CAP	MCPS Combined Cycle Unit 1 Emission Cap	NO _x	---	192.95
		CO	---	265.63
		VOC	---	109.90
		SO ₂	---	71.55

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
		PM	---	125.71
		PM ₁₀	---	125.71
		PM _{2.5}	---	125.71
		H ₂ SO ₄	---	33.18
		NH ₃	---	247.80
		HAP	---	33.93
MCPS-CTW	MCPS Cooling Tower	PM	1.23	5.40
		PM ₁₀	0.63	2.76
		PM _{2.5}	0.01	0.04
MCPS-EMGEN	MCPS Emergency Generator	NO _x	25.94	1.30
		CO	14.81	0.74
		VOC	1.41	0.07
		SO ₂	0.03	<0.01
		PM	0.85	0.04
		PM ₁₀	0.85	0.04
		PM _{2.5}	0.85	0.04
		HAP	0.03	<0.01
MCPS-FWP	MCPS Emergency Fire Water Pump	NO _x	1.77	0.09
		CO	1.62	0.08
		VOC	0.1	<0.01
		SO ₂	<0.01	<0.01
		PM	0.09	<0.01
		PM ₁₀	0.09	<0.01
		PM _{2.5}	0.09	<0.01
		HAP	0.01	<0.01
MCPS-NGFUG	MCPS Natural Gas Fugitive Emissions (5)	VOC	0.17	0.74
		HAP	<0.01	<0.01
MCPS-AMMFUG	MCPS Ammonia Fugitive Emissions (5)	NH ₃	0.05	0.20
MCPS-DSLFUG	MCPS Diesel Fugitive Emissions (5)	VOC	0.08	0.34
		HAP	0.08	0.34
MCPS-LOV	MCPS Lube Oil Vents	VOC	0.03	0.13
MCPSMSSFUG		NO _x	<0.01	<0.01

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			lbs/hour	TPY (4)
	MCPS Maintenance Activities (5)	CO	<0.01	<0.01
		VOC	61.09	1.49
		PM	2.68	0.08
		PM ₁₀	2.67	0.08
		PM _{2.5}	2.66	0.08
		HAP	0.33	0.01
		NH ₃	0.01	<0.01
MCPSTK1	GT 1A Control Oil Tank	VOC	<0.01	<0.01
MCPSTK2	GT 1B Control Oil Tank	VOC	<0.01	<0.01
MCPSTK3	NG Condensate Fuel Drain Tank 1	VOC	4.20	0.10
MCPSTK4	NG Condensate Fuel Drain Tank 2	VOC	4.20	0.10
MCPSTK5	NG Condensate Fuel Drain Tank 3	VOC	4.20	0.10
MCPSTK6	ST Hydraulic Reservoir/Tank	VOC	<0.01	<0.01
MCPSTK7	GT 1A Lube Oil Tank	VOC	0.01	<0.01
MCPSTK8	GT 1B Lube Oil Tank	VOC	0.01	<0.01
MCPSTK9	Emergency Generator Engine Diesel Tank	VOC	0.07	<0.01
MCPSTK10	Emergency Generator Engine Lube Oil Tank	VOC	<0.01	<0.01
MCPSTK11	Emergency Firewater Pump Engine Diesel Tank	VOC	0.02	<0.01
MCPSTK12	ST Lube Oil Tank	VOC	0.01	<0.01
MCPSTK13	Boiler Feed Pump Lube Oil Reservoir 1	VOC	<0.01	<0.01
MCPSTK14	Boiler Feed Pump Lube Oil Reservoir 2	VOC	<0.01	<0.01
MCPSTK15	Boiler Feed Pump Lube Oil Reservoir 3	VOC	<0.01	<0.01
MCPSTK16	Boiler Feed Pump Lube Oil Reservoir 4	VOC	<0.01	<0.01
MCPSTK17	Oil Water Separator	VOC	<0.01	<0.01
MCPSTK18	Cooling Tower Sodium Hypochlorite Storage Tank	NaClO	0.11	<0.01
MCPSTK19	Portable Diesel Tank	VOC	0.03	<0.01
MCPSTK20	Sulfuric Acid Tank	H ₂ SO ₄	<0.01	<0.01

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MCPSTK21	GT 1A Seal Oil Vacuum Tank	VOC	<0.01	<0.01
MCPSTK22	GT 1B Seal Oil Vacuum Tank	VOC	<0.01	<0.01

- (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_x - total oxides of nitrogen
- SO₂ - sulfur dioxide
- PM - total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}, as represented
- PM₁₀ - total particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}, as represented
- PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter
- CO - carbon monoxide
- H₂SO₄ - sulfuric acid
- NaClO - sodium hypochlorite
- NH₃ - ammonia
- HAP - hazardous air pollutant as listed in § 112(b) of the Federal Clean Air Act or Title 40 Code of Federal Regulations Part 63, Subpart C
- (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.
- (6) Planned maintenance, startup and shutdown (MSS) for all pollutants are authorized even if not specifically identified as MSS. During any clock hour that includes one or more minutes of planned MSS or transition load operation events that pollutant's maximum hourly emission rate shall apply during that clock hour.

Date: April 24, 2020