Permit Numbers 723 and PSDTX828M1

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)	
CT-N5-N	N-5 Cooling Tower North	VOC	0.30	1.32	
	North	PM	0.14	0.62	
		PM ₁₀	0.08	0.36	
		PM _{2.5}	<0.01	<0.01	
CT-N5-S	N-5 Cooling Tower South	VOC	0.25	1.10	
	South	PM	0.12	0.51	
		PM ₁₀	0.07	0.30	
		PM _{2.5}	<0.01	<0.01	
CT-N7	N-7 Cooling Tower	VOC	1.50	6.58	
		PM	0.70	3.08	
		PM ₁₀	0.41	1.79	
		PM _{2.5}	<0.01	<0.01	
CT-1	Cooling Tower #1	VOC	0.36	1.58	
		PM	0.31	1.34	
		PM ₁₀	0.21	0.93	
		PM _{2.5}	<0.01	<0.01	
N-3R	N-7/8 Preheaters	NOx	0.34	1.37	
		СО	0.51	2.03	
		VOC	0.07	0.30	
		PM	0.10	0.41	
		PM ₁₀	0.10	0.41	

		PM _{2.5}	0.10	0.41
		SO ₂	<0.01	0.01
N-4	N-7/8 Absorber Feed Water Tank	HCN	0.01	0.01
	water rank	NH ₃	3.14	0.01
N-6	N-3/7 Feed and Exit Gas Flare	NO _X	130.65	7.78
	Castrare	СО	699.09	136.39
		VOC (other)	0.19	0.01
		CH₃CN	0.04	0.11
		SO ₂	0.11	0.01
		HCN	28.40	1.94
		NH ₃	31.88	0.66
		Acetone	0.19	0.84
N-7	N-5/6 Safety Vent Stack	VOC (6)	0.01	0.01
	Stack	HCN	1.35	0.03
		NH ₃	1.46	0.15
N-8	N-3/4 Safety Vent Stack	VOC (6)	0.01	0.01
	Stack	HCN	1.43	0.03
		NH ₃	1.46	0.16
N-9	N-7/8 SVG Fan	HCN	0.07	0.21
		NH ₃	0.01	0.01

N-12R	N-3/4 Preheaters	NOx	0.34	1.37
		СО	0.51	2.03
		VOC	0.07	0.30
		РМ	0.10	0.41
		PM ₁₀	0.10	0.41
		PM _{2.5}	0.10	0.41
		SO ₂	<0.01	0.01
N-14	N-5/6 Preheater	NO _X	1.83	8.02
		СО	0.02	0.07
		VOC	0.09	0.38
		РМ	0.12	0.52
		PM ₁₀	0.12	0.52
		PM _{2.5}	0.12	0.52
		SO ₂	0.01	0.01
N-17	N-5/6 Flare	NO _X	152.13	48.41
		СО	450.52	235.34
		VOC (other)	0.10	0.01
		CH₃CN	1.25	2.01
		CH₂CHCN	0.78	1.20
		SO ₂	0.08	0.03
		HCN	24.01	17.04
		NH ₃	171.71	49.14
		Acetone	4.17	7.33
N-18	Wastewater Collection Tank No. 91357	HCN	0.03	0.01
N-19	N-5 Acetone Day Tank	Acetone	0.55	1.03

T-96662	Acetone Dock Tank	Acetone	1.25	2.40
FN	Fugitives (5)	HCN	0.43	1.83
		NH ₃	0.32	0.79
		ACH	0.44	1.93
		Acetone	0.53	2.26
		CH₃CN	0.15	0.62
		CH₂CHCN	0.07	0.31
		H ₂ SO ₄	0.01	0.02
		СО	0.04	0.17
TK-FUG	Tank N-96662 Fugitives (5)	Acetone	0.04	0.18
N_MSSTK	Fixed Roof Tank MSS	Isodecyl Alcohol	0.11	0.01
		HCN	0.92	0.01
N_MSSFR	Floating Roof Tank MSS	Acetone	68.80	0.25
N_MSSPH	Pump and Heat Exchanger MSS	HCN	0.17	0.01
	Zzonangor mee	NH ₃	0.21	0.01
		ACH	0.22	0.02
		Acetone	0.19	0.01
		VOC (other)	0.05	0.01
N_DEGAS	Equipment Degassing	HCN	0.35	0.01
		NH ₃	1.50	0.01
		ACH	0.01	0.01
		Acetone	0.28	0.01
		VOC (other)	0.11	0.01

NMISCMSS	Miscellaneous MSS Activities	HCN	0.12	0.01
		NH ₃	0.06	0.01
		ACH	0.22	0.01
		Acetone	0.29	0.01
		H ₂ SO ₄	0.11	0.01
		VOC (other)	0.16	0.01
N-3 MSS	N-7/8 Preheaters MSS	со	2.64	0.02
		NO _X	0.21	0.01
		PM	0.03	0.01
		PM ₁₀	0.03	0.01
		PM _{2.5}	0.03	0.01
		SO ₂	0.01	0.01
		VOC	0.02	0.01
N-12MSS	N-3/4 Preheaters MSS	со	2.64	0.02
		NO _X	0.21	0.01
		PM	0.03	0.01
		PM ₁₀	0.03	0.01
		PM _{2.5}	0.03	0.01
		SO ₂	0.01	0.01
		VOC	0.02	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 including PM₁₀ and PM_{2.5}

PM₁₀ - particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}

PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter

CO - carbon monoxide HCN - hydrogen cyanide

NH₃ - ammonia

ACH - acetone cyanohydrin

 CH_3CN - acetonitrile CH_2CHCN - acrylonitrile H_2SO_4 - sulfuric acid

- (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) Emissions of ACH are included in the VOC emissions for this EPN.

Permit Numbers 723 and PSDTX828M1	
Page	

- Fmicoion	Couroco	Maximum	Allowobla	Emission	Dotoo
Emission	Sources -	ımaxımum	Allowable	Emission	Rates