Permit Numbers 723 and PSD-TX-828M1

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.

Emission	Source	Air Contaminant	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY **
			07.10	100.00
AP-1a	L-Area Gas Turbine (LGT)	NO_x	27.46	120.29
		CO	38.53	168.74
		VOC	0.59	2.56
		PM_{10}	2.09	9.16
		SO_2	0.03	0.12
AP-2	N-3 Backup Instrument Air	NO _x	6.21	2.23
	Compressor	CO	1.26	0.45
		VOC	0.10	0.03
		PM	0.08	0.03
		SO ₂	0.01	0.01
		302	0.01	0.01
CT-N5-N	N-5 Cooling Tower North	VOC	0.45	1.95
	3	PM	2.04	8.92
CT-N5-S	N-5 Cooling Tower South	VOC	0.62	2.72
	-	PM	2.84	12.44
CT-N7	N-7 Cooling Tower	VOC	1.67	7.33
		PM	7.65	33.51

Emission	Source	Air	Contaminant	Emission	Rates *
Point No. (1)	Name (2)		Name (3)	lb/hr	TPY **
N-3	N7/8 Preheater		NO_x	0.47	2.05
			CO	0.45	1.97
		VOC	0.03	0.14	
		PM_{10}	0.04	0.19	
		SO_2	0.01	0.01	
N-4	N-7/8 Absorber Feed Wa	ater	HCN	0.01	0.01
	Tank		NH ₃	2.54	0.01
				100.05	 0
N-6	N 3/7 Feed and Exit Gas			130.65	7.78
		CO	699.09	136.39	
		VOC	0.22	0.09	
		SO ₂	0.11	0.01	
			28.36	1.77	
		NH ₃	31.88	0.66	0.70
		Aceto	ne	0.16	0.70
N-7	N-5/6 Safety Vent Stack		VOC	0.58	0.01
		NH_3	1.46	0.13	
N-8	N-3/4 Safety Vent Stack		VOC	0.58	0.01
		NH ₃	1.46	0.13	
N-9	N7/8 SVG Fan		HCN	0.07	0.24
			NH ₃	0.02	0.03
N-10	N-3/4 Alcohol Tank		VOC	0.01	0.01
N-11	N-5/6 Alcohol Tank		VOC	0.01	0.01
N-12	N-3 Preheater		NO _x	0.27	1.18
		CO	0.23	0.99	
		VOC	0.02	0.07	
		PM	0.02	0.09	
		SO_2	0.01	0.01	
N-13	N-4 Preheater		NO _x	0.27	1.18

Emission	Source	Air Contaminant		Emission Rates *	
Point No. (1)	Name (2)		Name (3)	lb/hr	TPY **
		CO VOC PM SO ₂	0.23 0.01 0.02 0.01	0.99 0.07 0.09 0.01	
N-14	N-5/6 Preheater	CO VOC PM SO ₂	NO _x 1.00 0.06 0.09 0.01	1.19 4.38 0.29 0.39 0.01	5.21
N-15	N-7/8 Alcohol Tank		VOC	0.01	0.01
N-16	N-5 8-10Alcohol Storage No. 27745	e Tank	VOC	0.01	0.01
N-17	N5/6 Flare	CO VOC SO ₂ HCN NH ₃ Aceto	NO _x 450.52 2.13 0.11 23.98 171.72	152.13 235.34 3.20 0.03 16.96 49.15 4.12	48.41 7.11
N-18	Wastewater Collection T No. 91357	Vastewater Collection Tank HCN No. 91357		0.02	0.01
N-19	N-5 Acetone Day Tank		Acetone	0.56	0.95
T-96662	Acetone Dock Tank		Acetone	1.36	2.33
FN	Fugitives (4)(5)	ACH Aceto	HCN NH₃ 1.68 ne	2.44 0.52 7.37 1.35	10.68 2.26 5.92
		Fugiti	ves (4) (6)	VOC	0.05

Emission	Source	Air Contaminant	<u>Emission</u>	Rates *
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY **
			0.21	
			HCN 0.19	0.82
			NH₃ 0.49	2.17
			ACH 0.22	0.98
			Acetone	0.45
			1.96	
TK-FUG	Tank N-96662 Fugitives	Acetone	0.04	0.18

- (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) HCN hydrogen cyanide

NH₃ - ammonia

CO - carbon monoxide

NO_x - total oxides of nitrogen

SO₂ - sulfur dioxide

VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1, does not include any VOCs speciated separately for an emission point

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.

ACH - Acetone cyanohydrin

- (4) Emission rate is an estimate and compliance is demonstrated by meeting the requirements of the applicable Special Conditions and permit application representations.
- (5) Fugitive emissions until the maximum available control technology (MACT) (40 CFR Part 63 Subparts YY and FFFF) compliance dates.
- (6) Fugitive emissions after the MACT compliance dates.

*	Emission rates are based on and the facilities are limited by the following maximum operating schedule:				
	Hrs/day	_ Days/week	Weeks/year	or Hrs/year <u>8,760</u>	
**	Compliance with the annual emission rates are based on 12-month rolling basis.				

Dated March 24, 2005