## 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.

## AIR CONTAMINANTS DATA

Emission Source Air		Air Contaminant	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY **
				_
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 <sub>2</sub>	0.01	0.01
CT-N5-N	N-5 Cooling Tower North	VOC	0.45	1.95
	<b>3</b>	PM	2.04	8.92
CT-N5-S	N-5 Cooling Tower South	VOC	0.62	2.72
	Tro dealing remar dealin	PM	2.84	12.44
CT-N7	N-7 Cooling Tower	VOC	1.67	7.33
C1-IVI	14-7 Cooling Tower	PM	7.65	33.51
N-3	N-7/8 Preheater	$NO_x$	0.47	2.05
		CO	0.45	1.97
		OC 0.03	0.14	
		$M_{10}  0.04$	0.19	
	So	$O_2 = 0.01$	0.01	

## AIR CONTAMINANTS DATA

Emission	Source	Air	· Contaminant	<b>Emission</b>	Rates *
Point No. (1)	Name (2)		Name (3)	lb/hr	TPY **
	. ,				_
N-4	N-7/8 Absorber Feed Wa	ater	HCN	0.01	0.01
	Tank		NH <sub>3</sub>	2.54	0.01
N-6	N-3/7 Feed and Exit Gas	s Flare	NO <sub>x</sub>	130.65	7.78
		CO	699.09	136.39	
		VOC	(other)	0.19	0.01
		CH₃C	N	0.03	0.09
		$SO_2$	0.11	0.01	
		HCN	28.36	1.77	
		$NH_3$	31.88	0.66	
		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
		NH₃	1.46	0.13	
N-9	N-7/8 SVG Fan		HCN	0.07	0.24
			NH <sub>3</sub>	0.02	0.03
N-10	N-3/4 Alcohol Tank		VOC	0.01	0.01
N-12	N-3 Preheater		NO <sub>x</sub>	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 <sub>x</sub>	0.27	1.18
		CO	0.23	0.99	
		VOC	0.01	0.07	
		PM	0.02	0.09	
		$SO_2$	0.01	0.01	
N-14	N-5/6 Preheater		NO <sub>x</sub>	1.19	5.21
		CO	1.00	4.38	
		VOC	0.06	0.29	
		PM	0.09	0.39	

# AIR CONTAMINANTS DATA

Emission	Source	Air	Contaminant	<u>Emissio</u>	n Rates *
Point No. (1)	Name (2)		Name (3)	lb/hr	TPY **
		SO <sub>2</sub>	0.01	0.01	
N-15	N-7/8 Alcohol Tank		VOC	0.01	0.01
N-16	N-5 8-10 Alcohol Storag No. 27745	e Tank	VOC	0.01	0.01
N-17	N-5/6 Flare	CO	NO <sub>x</sub> 450.52	152.13 235.34	48.41
		CH <sub>3</sub> C CH <sub>2</sub> C SO <sub>2</sub>		0.10 1.25 0.78 0.03 16.96 49.15	0.01 2.00 1.20
		Aceto		4.12	7.11
N-18	Wastewater Collection T No. 91357	Tank	HCN	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	HCN NH₃ 1.68	2.44 0.52 7.37	10.68 2.26
		Aceto		1.35	5.92
		Fugiti	ves (4) (6)	HCN 0.82	0.19
				NH₃ 0.49 ACH 0.22 Acetone 1.96	2.17 0.98 0.45

			CH₃CN 0.10 CH₂CHCN 0.11	0.02
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

NH<sub>3</sub> - ammonia

CO - carbon monoxide

NO<sub>x</sub> - total oxides of nitrogen

SO<sub>2</sub> - 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

PM<sub>10</sub> - 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

CH₃CN - acetonitrile

CH<sub>2</sub>CHCN - acrylonitrile

- (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 Title 40 Code of Federal Regulations Part 63 Subparts YY and FFFF compliance dates.
- (6) Fugitive emissions after the MACT compliance dates.

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*	EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES  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 April 16, 2008