# Permit Number 20485

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	Contaminant	<b>Emission</b>	Rates *
Point No. (1)	Name (2)		Name (3)	lb/hr	TPY**
UWNR1 and	North/South Flare (5)		VOC	32.06	7.67
UW6R1	Normal Mode of		1,3 butadiene	6.47	4.35
	Operation		$NO_x$	0.78	0.45
			CO	5.85	3.64
UWNR1 and	North/South Flare (5)		VOC	70.57	9.96
UW6R1	Maintenance Mode of		1,3 butadiene	36.05	4.71
	Operation		$NO_x$	3.11	0.42
			CO	22.47	3.03
UWNR1	North Flare		NO <sub>x</sub>	0.05	0.22
	Pilot Emissions		CO	0.37	1.62
UW6R1	South Flare		NO <sub>x</sub>	0.05	0.22
	Pilot Emissions		CO	0.37	1.62
RSWLDFLR	Dock Flare		VOC	44.09	17.49
			1,3 butadiene	45.85	8.24
			$NO_x$	27.16	7.13
			CO	82.30	34.91
UW6BB1	Boiler 1		NO <sub>x</sub>	264.00	1036.00
			CO	85.00	219.00
			SO <sub>2</sub>	9.30	36.5
		VOC	0.85	3.35	
		$PM_{10}$	4.25	16.85	

# AIR CONTAMINANTS DATA

Emission	Source	Air Contaminant	Emission	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**
UW6BB9	Boiler 9	$NO_x$	5.70	24.92
	285 MMBtu/hr	CO	23.62	48.11
		SO <sub>2</sub>	4.04	14.99
		VOC	1.14	4.36
		PM <sub>10</sub>	2.15	7.97
UW6BB10	Boiler 10	NO <sub>x</sub>	5.70	24.92
	285 MMBtu/hr	CO	23.62	48.11
		SO <sub>2</sub>	4.04	14.99
		VOC	1.14	4.36
		$PM_{10}$	2.15	7.97
UW6BB9 and	Boiler 9 and 10	NO <sub>x</sub>		44.86
UW6BB10	Annual Cap	CO		86.59
		$SO_2$		26.98
		VOC		7.85
		$PM_{10}$		14.35
BDMTS3BA	Air Heater	PM <sub>10</sub>	0.04	0.06
		VOC	0.04	0.06
		$NO_x$	0.98	1.48
		SO <sub>2</sub>	0.08	0.12
		CO	0.25	0.37
WWCT1-6	Cooling Tower	VOC	46.30	50.67
		1,3 butadiene (4)	37.57	41.43
6-TK-48	Storage Tank 48	VOC	0.57	<0.01
6-TK-72	Storage Tank 72	VOC	0.57	<0.01
6-TK-73	Storage Tank 73	VOC	0.57	<0.01

# AIR CONTAMINANTS DATA

Emission	Source	Air Contaminant	Emission	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**	
C4BUND	Bundle Furnaces	$\begin{array}{c} PM_{10} \\ VOC \\ NO_{x} \\ SO_{2} \\ CO \end{array}$	1.00 0.02 0.20 <0.01 3.35	4.38 0.10 0.88 <0.01 14.60	
C4TKMAIN	Tank Maintenance (6)	VOC 1,3 butadiene	1.01 1.03	0.16 0.17	
C4FUG	Fugitives (4)(7)	VOC	13.87	60.33	
C4ICE	Internal Combustion Engines (7)	$\begin{array}{c} PM_{10} \\ VOC \\ NO_{x} \\ SO_{2} \\ CO \end{array}$	5.07 6.61 70.46 4.46 15.15	0.07 0.09 0.92 0.06 0.20	
C4ICEDFT	Diesel Fuel Tanks (7)	VOC	<0.01	<0.01	
C4MCST	Miscellaneous Chemical Storage Tanks (7)	VOC	0.05	0.20	

THE FOLLOWING SHALL APPLY TO BOILER 8 BEFORE AUGUST 1, 2007 AND AFTER JULY 31, 2007, IF IT IS OPERATED FOR 750 HOURS OR LESS PER CALENDAR YEAR:

UW6BB8	Boiler 8	NO <sub>x</sub>	8.54	37.38
	285 MMBtu/hr	СО	11.81	51.72
		SO <sub>2</sub>	4.04	17.71
		VOC	1.14	4.98
		$PM_{10}$	2.15	9.42

#### AIR CONTAMINANTS DATA

Emission	Source	Air Contaminant	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**
MORE THAN 750	HOURS PER CALENDAR YE	EAR:		
UW6BB8	Boiler 8 285 MMBtu/hr	NO <sub>x</sub> CO SO <sub>2</sub> VOC	5.70 23.62 4.04 1.14	24.96 51.72 17.71 4.98
		PM <sub>10</sub>	2.15	9.42

- (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<sub>x</sub> - total oxides of nitrogen

CO - carbon monoxide

PM<sub>10</sub> - particulate matter (PM) 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.

SO<sub>2</sub> - sulfur dioxide

- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) The north and south flares are connected to a header system that allows either flare to combust the waste streams.
- (6) Estimate of emissions generated from wastewater during cleaning of spherical process tanks.
- (7) Emissions from several small internal combustion engines and storage tanks.
- \* Emission rates are based on and the facilities are limited by the following maximum operating schedule:

Hrs/day <u>24</u> Days/week <u>7</u> Weeks/year <u>52</u> or Hrs/year <u>\_\_\_\_</u>

\*\* Compliance with annual emission limits is based on a rolling 12-month period.