#### Flexible Permit Numbers 95 and PSD-TX-854

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

**NO<sub>x</sub> Furnace Emission Cap-Phase I (6)** 

#### AIR CONTAMINANTS DATA

**Emission Rates \*** 

401.91

 $NO_x$ 

1703.11

Air Contaminant

	Jource	All Contaminant	<u> </u>	Naics
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**
Sources Contrib	uting to Plant NO <sub>x</sub> Emissions			
Furnace NO <sub>x</sub> Emi	ssion Cap			
DB-104	Pyrolysis Furnace	$NO_x$		
DDB-101A	Pyrolysis Furnace	$NO_x$		
DDB-101B	Pyrolysis Furnace	$NO_x$		
DDB-101C	Pyrolysis Furnace	$NO_x$		
DDB-101D	Pyrolysis Furnace	$NO_x$		
DDB-102A	Pyrolysis Furnace	$NO_x$		
DDB-102B	Pyrolysis Furnace	$NO_x$		
DDB-102C	Pyrolysis Furnace	$NO_x$		
DDB-102D	Pyrolysis Furnace	$NO_x$		
DDB-104A	Pyrolysis Furnace	$NO_x$		
DDB-104B	Pyrolysis Furnace	$NO_x$		
DB-105	Pyrolysis Furnace	$NO_x$		
DB-106	Pyrolysis Furnace	$NO_x$		
DB-107	Pyrolysis Furnace	$NO_x$		
DB-108	Pyrolysis Furnace	$NO_x$		
DB-109	Pyrolysis Furnace	$NO_x$		
DDB-1	Pyrolysis Furnace	$NO_x$		
DDB-2	Pyrolysis Furnace	$NO_x$		
DDB-3	Pyrolysis Furnace	$NO_x$		
DDB-4	Pyrolysis Furnace	$NO_x$		
DDB-5	Pyrolysis Furnace	$NO_x$		

Emission	Source	Air Contaminant	Emissio	n Rates *
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**
NO <sub>x</sub> Furnace Emissi	ion Cap-Phase II (7)	$NO_x$	284.70	1246.99
Other Source NO <sub>x</sub> Ro	outine Emission Cap			
DM-1101	No. 1 Olefins Flare	$NO_x$		
DDM-3101	No. 2 Olefins Flare	$NO_x$		
AM-1500	Dock Flare	$NO_x$		
J-2	Regeneration Knockout Drum	$NO_x$		
DD-606	Hydrotreater Regenerator Stack	$NO_x$		
DDD-606	Hydrotreater Regenerator Stack	$NO_x$		
DB-201	Regeneration Furnace	$NO_x$		
DB-601	Regeneration Heater	$NO_x$		
DDB-201	Regeneration Heater	$NO_x$		
DDB-601	Regeneration Heater	$NO_x$		
J-1	2nd Stage Hydrotreater Feed	$NO_x$		
NO <sub>x</sub> Other Source F	Routine Emission Cap	NO <sub>x</sub>	166.85	86.91
Total NO <sub>x</sub> Routine E	mission Plant Cap-Phase I (6)		NO <sub>x</sub>	
		1692.78		
Startup, Shutdown, a	nd Maintenance NO <sub>x</sub> Emissions			
DM-1101/ DDM-3101	Olefin Nos. 1 and 2 Flares Startup, Shutdown, and Maintenance Emissions	NO <sub>x</sub>	1,227.4 0	30.68
Sources Contributir	ng to Plant VOC Emissions			
Furnace VOC Emissi	on Cap			
DB-104 DDB-101A	Pyrolysis Furnace Pyrolysis Furnace	VOC VOC		

Emission	Source	Air Contaminant	Emission	n Rates *
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**
DDD 404D				
DDB-101B	Pyrolysis Furnace	VOC		
DDB-101C	Pyrolysis Furnace	VOC		
DDB-101D	Pyrolysis Furnace	VOC		
DDB-102A	Pyrolysis Furnace	VOC		
DDB-102B	Pyrolysis Furnace	VOC		
DDB-102C	Pyrolysis Furnace	VOC		
DDB-102D	Pyrolysis Furnace	VOC		
DDB-104A	Pyrolysis Furnace	VOC		
DDB-104B	Pyrolysis Furnace	VOC		
DB-105	Pyrolysis Furnace	VOC		
DB-106	Pyrolysis Furnace	VOC		
DB-107	Pyrolysis Furnace	VOC		
DB-108	Pyrolysis Furnace	VOC		
DB-109	Pyrolysis Furnace	VOC		
DDB-1	Pyrolysis Furnace	VOC		
DDB-2	Pyrolysis Furnace	VOC		
DDB-3	Pyrolysis Furnace	VOC		
DDB-4	Pyrolysis Furnace	VOC		
DDB-5	Pyrolysis Furnace	VOC		
<b>VOC Furnace Emis</b>	sion Cap-Phase I (6)	VOC	20.66	90.49
<b>VOC Furnace Emis</b>	sion Cap-Phase II (7)	VOC	23.63	103.49
Other Source VOC F	Routine Emission Cap			
DM-1101	No. 1 Olefins Flare	VOC		
DDM-3101	No. 2 Olefins Flare	VOC		
AM-1500	Dock Flare	VOC		
DF-101	Decoke Stack	VOC		
DF-104	Decoke Stack	VOC		
DF-105	Decoke Stack	VOC		

Emission	Source	Air Contaminant	Emission I	Rates *
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**
				_
DDF-101	Decoke Stack	VOC		
DDF-104	Decoke Stack	VOC		
DDF-105	Decoke Stack	VOC		
AT-1210	No. 1 Olefins Cooling Tower	VOC		
DAT-3201	No. 2 Olefins Cooling Tower	VOC		
AF-1105	Fixed-Roof Storage Tank	VOC		
AF-1106	Fixed-Roof Storage Tank	VOC		
AF-1905	Fixed-Roof Storage Tank	VOC		
AF-3905	Fixed-Roof Storage Tank	VOC		
DDF-1001	Fixed-Roof Storage Tank	VOC		
DF-1001	Fixed-Roof Storage Tank	VOC		
DF-502	Fixed-Roof Storage Tank	VOC		
DF-916	Fixed-Roof Storage Tank	VOC		
FUELTRK1	No.1 Olefins Truck Loading	VOC		
FUELTRK2	No. 2 Olefins Truck Loading	VOC		
FUELTRK3	Truck Loading Facility	VOC		
AF-1101	External Floating Roof Tank	VOC		
AF-1102	External Floating Roof Tank	VOC		
AF-1901	External Floating Roof Tank	VOC		
AF-1902	External Floating Roof Tank	VOC		
AF-1903	External Floating Roof Tank	VOC		
AF-1904	External Floating Roof Tank	VOC		
AF-3101	External Floating Roof Tank	VOC		
AF-3102	External Floating Roof Tank	VOC		
AF-3901	External Floating Roof Tank	VOC		
AF-1103	Acetonitrile Storage Tank	VOC		
AF-1104	Acetonitrile Storage Tank	VOC		
AF-3103	Acetonitrile Storage Tank	VOC		
DDF-1301	Methanol Storage Tank	VOC		
DDF-202	Methanol Storage Tank	VOC		
DF-1301	Methanol Storage Tank	VOC		

Emission	Source	Air Contaminant	<u>Emissic</u>	on Rates *
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**
AF-3701	Slop	VOC		
AF-4601A	Storm/Process Wastewater Tank	VOC		
AF-4601B	Storm/Process Wastewater Tank	VOC		
FAM1704	No. 1 Olefins Wastewater Facility	VOC		
FUGOF1WW	Fugitive Emissions	VOC		
FAM3706	No. 2 Olefins Wastewater Facility	VOC		
FUG2WWT	Fugitive Emissions	VOC		
FUG-V10F	No. 1 Olefins Unit Fugitives	VOC		
FUG-V20F	No. 2 Olefins Unit Fugitives	VOC		
FUG-FTF	Tank Farm Fugitives	VOC		
FUG-VSSH	Second Stage Hydrotreater	VOC		
FUG-VBD	Marine Dock Fugitives	VOC		
FUG-VCM	Metering Station Fugitives	VOC		
FUG-RAIL	Rail Loading Fugitives	VOC		
FUG-A10F	No. 1 Olefins Analyzer Vent Fug	VOC		
FUG-A20F	No. 2 Olefins Analyzer Vent Fug	VOC		
OF1SOVENT	Seal Oil Vents	VOC		
DB-201	Regeneration Furnace	VOC		
DB-601	Regeneration Heater	VOC		
DDB-201	Regeneration Heater	VOC		
DDB-601	Regeneration Heater	VOC		
P4PEDRYER1	PP4 Dryer Vents (Product Residual VOC)	VOC		
P4PEDRYER2	PP4 Dryer Vents (Product Residual VOC)	VOC		
J-1	2nd Stage Hydrotreater Feed	VOC		
VOC Other Source Routine Emission Cap		VOC 1	1513.67	689.70
Startup, Shutdown, a	nd Maintenance VOC Emissions			
DM-1101/	Olefin Nos. 1 and 2 Flares Startup,	VOC 3	3,500.0	87.50

Emission	Source	Air Contaminant	Emission	Rates *
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**
DDM-3101	Shutdown, and Maintenance Emissions		0	
FUGOF1WW/ FUG2WWT	Nos. 1 and 2 Olefins Wastewater Unit Cleaning	VOC	40	0.24
Sources Contributing	ng to Plant CO Emissions			
Furnace CO Emissio	n Cap			
DB-104	Pyrolysis Furnace	СО		
DDB-101A	Pyrolysis Furnace	CO		
DDB-101B	Pyrolysis Furnace	CO		
DDB-101C	Pyrolysis Furnace	CO		
DDB-101D	Pyrolysis Furnace	CO		
DDB-102A	Pyrolysis Furnace	CO		
DDB-102B	Pyrolysis Furnace	CO		
DDB-102C	Pyrolysis Furnace	CO		
DDB-102D	Pyrolysis Furnace	CO		
DDB-104A	Pyrolysis Furnace	CO		
DDB-104B	Pyrolysis Furnace	CO		
DB-105	Pyrolysis Furnace	CO		
DB-106	Pyrolysis Furnace	CO		
DB-107	Pyrolysis Furnace	CO		
DB-108	Pyrolysis Furnace	CO		
DB-109	Pyrolysis Furnace	CO		
DDB-1	Pyrolysis Furnace	CO		
DDB-2	Pyrolysis Furnace	CO		
DDB-3	Pyrolysis Furnace	CO		
DDB-4	Pyrolysis Furnace	CO		
DDB-5	Pyrolysis Furnace	СО		
CO Furnace Emissi	on Cap-Phase I (6)	СО	184.22	806.90

### AIR CONTAMINANTS DATA

Emission	Source	Air Contaminant	- Emission	Dotoo *
Point No. (1)	Name (2)	Name (3)	Emission lb/hr	TPY**
POINT NO. (I)	Name (2)	Name (3)	10/111	<u>IFI</u>
CO Furnace Emission	on Cap-Phase II (7)	СО	200.78	879.41
Plant Other Source R	coutine CO Emission Cap			
DM-1101	No. 1 Olefins Flare	CO		
DDM-3101	No. 2 Olefins Flare	CO		
AM-1500	Dock Flare	CO		
DF-101	Decoke Stack	CO		
DF-104	Decoke Stack	CO		
DF-105	Decoke Stack	CO		
DDF-101	Decoke Stack	CO		
DDF-104	Decoke Stack	CO		
DDF-105	Decoke Stack	CO		
J-2	Regeneration Knock-out Drum	CO		
DD-606	Hydrotreater Regenerator Stack	CO		
DDD-606	Hydrotreater Regenerator Stack	CO		
DB-201	Regeneration Furnace	CO		
DB-601	Regeneration Heater	CO		
DDB-201	Regeneration Heater	CO		
DDB-601	Regeneration Heater	CO		
J-1	2nd Stage Hydrotreater Feed	CO		
Other Source CO E	mission Cap	СО	1086.54 264	4.63
Startup, Shutdown, a	nd Maintenance CO Emissions			
DM-1101/ DDM-3101	Olefin Nos. 1 and 2 Flares Startup, Shutdown, and Maintenance Emissions	СО	6254.32 150	5.36
Sources Contributing	ng to Plant PM <sub>10</sub> Emissions			

## Furnace PM<sub>10</sub> Emission Cap

DB-104	Pyrolysis Furnace	$PM_{10}$
DDB-101A	Pyrolysis Furnace	$PM_{10}$

Emission	Source	Air Contaminant	Emissio	n Rates *
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**
DDD 101D	Dyrobysia Europe	DM		
DDB-101B	Pyrolysis Furnace	$PM_{10}$		
DDB-101C	Pyrolysis Furnace	$PM_{10}$		
DDB-101D	Pyrolysis Furnace	$PM_{10}$		
DDB-102A	Pyrolysis Furnace	$PM_{10}$		
DDB-102B	Pyrolysis Furnace	$PM_{10}$		
DDB-102C	Pyrolysis Furnace	$PM_{10}$		
DDB-102D	Pyrolysis Furnace	$PM_{10}$		
DDB-104A	Pyrolysis Furnace	$PM_{10}$		
DDB-104B	Pyrolysis Furnace	$PM_{10}$		
DB-105	Pyrolysis Furnace	$PM_{10}$		
DB-106	Pyrolysis Furnace	$PM_{10}$		
DB-107	Pyrolysis Furnace	$PM_{10}$		
DB-108	Pyrolysis Furnace	$PM_{10}$		
DB-109	Pyrolysis Furnace	$PM_{10}$		
DDB-1	Pyrolysis Furnace	$PM_{10}$		
DDB-2	Pyrolysis Furnace	$PM_{10}$		
DDB-3	Pyrolysis Furnace	$PM_{10}$		
DDB-4	Pyrolysis Furnace	$PM_{10}$		
DDB-5	Pyrolysis Furnace	$PM_{10}$		
PM <sub>10</sub> Furnace Emis	ssion Cap-Phase I (6)	PM <sub>10</sub>	31.30	125.04
	ssion Cap-Phase II (7)	PM <sub>10</sub>	38.98	143.00
Other Source PM <sub>10</sub>	Emission Cap			
DF-101	Decoke Stack	$PM_{10}$		
DF-104	Decoke Stack	$PM_{10}$		
DF-105	Decoke Stack	$PM_{10}$		
DDF-101	Decoke Stack	$PM_{10}$		
DDF-104	Decoke Stack	$PM_{10}$		
DDF-105	Decoke Stack	$PM_{10}$		

Emission	Source	Air Contaminant	<u>Emissio</u>	n Rates *
Point No. (1)	Name (2)	Name (3)	<u>lb/hr</u>	TPY**
1.0	Description Knockett During	DM		
J-2	Regeneration Knockout Drum	PM <sub>10</sub>		
DD-606	Hydrotreater Regenerator Stack	PM <sub>10</sub>		
DDD-606	Hydrotreater Regenerator Stack	$PM_{10}$		
AT-1210	No. 1 Olefins Cooling Tower	$PM_{10}$		
DAT-3201	No. 2 Olefins Cooling Tower	$PM_{10}$		
A-11	Hopper Vent	$PM_{10}$		
A-12	Hopper Vent	$PM_{10}$		
DB-201	Regeneration Furnace	$PM_{10}$		
DB-601	Regeneration Heater	$PM_{10}$		
DDB-201	Regeneration Heater	$PM_{10}$		
DDB-601	Regeneration Heater	$PM_{10}$		
J-1	2nd Stage Hydrotreater Feed Heater	$PM_{10}$		
Other Source PM <sub>10</sub>	Emission Cap	$PM_{10}$	20.60	38.86
Sources Contributi	ng to Plant SO <sub>2</sub> Emissions			
Furnace SO <sub>2</sub> Emission	on Cap			
DB-104	Pyrolysis Furnace	SO <sub>2</sub>		
DDB-101A	Pyrolysis Furnace	$SO_2$		
DDB-101B	Pyrolysis Furnace	$SO_2$		
DDB-101C	Pyrolysis Furnace	$SO_2$		
DDB-101D	Pyrolysis Furnace	$SO_2$		
DDB-102A	Pyrolysis Furnace	$SO_2$		
DDB-102B	Pyrolysis Furnace	$SO_2$		
DDB-102C	Pyrolysis Furnace	$SO_2$		
DDB-102D	Pyrolysis Furnace	$SO_2$		
DDB-104A	Pyrolysis Furnace	$SO_2$		
DDB-104B	Pyrolysis Furnace	$SO_2$		
DB-105	Pyrolysis Furnace	SO <sub>2</sub>		

### AIR CONTAMINANTS DATA

Emission	Source	Air Contaminant	<u>Emissio</u>	on Rates *
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**
DB-106	Pyrolysis Furnace	$SO_2$		
DB-107	Pyrolysis Furnace	$SO_2$		
DB-108	Pyrolysis Furnace	$SO_2$		
DB-109	Pyrolysis Furnace	$SO_2$		
DDB-1	Pyrolysis Furnace	$SO_2$		
DDB-2	Pyrolysis Furnace	$SO_2$		
DDB-3	Pyrolysis Furnace	$SO_2$		
DDB-4	Pyrolysis Furnace	$SO_2$		
DDB-5	Pyrolysis Furnace	$SO_2$		
SO <sub>2</sub> Furnace Emiss	ion Can-Phase I (6)	SO <sub>2</sub>	53.66	11.75
SO <sub>2</sub> Furnace Emission Cap-Phase II (7)		SO <sub>2</sub>	61.37	13.44
Other Source SO <sub>2</sub> Er	mission Cap			
DM-1101	No. 1 Olefins Flare	$SO_2$		
DDM-3101	No. 2 Olefins Flare	$SO_2$		
AM-1500	Dock Flare	$SO_2$		
J-2	Regeneration Knockout Drum	$SO_2$		
DD-606	Hydrotreater Regenerator Stack	$SO_2$		
DDD-606	Hydrotreater Regenerator Stack	$SO_2$		
DB-201	Regeneration Furnace	$SO_2$		
DB-601	Regeneration Heater	$SO_2$		
DDB-201	Regeneration Heater	$SO_2$		
DDB-601	Regeneration Heater	$SO_2$		
J-1	2nd Stage Hydrotreater Feed Heater	$SO_2$		
Other Source SO <sub>2</sub> B	Emission Cap	SO <sub>2</sub>	96.15	9.85

## Sources Contributing to Plant NH<sub>3</sub> Emissions

Furnace NH<sub>3</sub> Emission Cap

### AIR CONTAMINANTS DATA

Emission	Source	Air Contaminant	Emission	n Rates *
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**
DB-104	Pyrolysis Furnace	$NH_3$		
DDB-101A	Pyrolysis Furnace	NH <sub>3</sub>		
DDB-101R	Pyrolysis Furnace	NH <sub>3</sub>		
DDB-101C	Pyrolysis Furnace	NH <sub>3</sub>		
DDB-101D	Pyrolysis Furnace	NH₃		
DDB-102A	Pyrolysis Furnace	NH <sub>3</sub>		
DDB-102B	Pyrolysis Furnace	$NH_3$		
DDB-102C	Pyrolysis Furnace	$NH_3$		
DDB-102D	Pyrolysis Furnace	NH <sub>3</sub>		
DDB-104A	Pyrolysis Furnace	NH <sub>3</sub>		
DDB-104B	Pyrolysis Furnace	NH₃		
DB-105	Pyrolysis Furnace	NH <sub>3</sub>		
DB-106	Pyrolysis Furnace	NH <sub>3</sub>		
DB-107	Pyrolysis Furnace	$NH_3$		
DB-108	Pyrolysis Furnace	$NH_3$		
DB-109	Pyrolysis Furnace	$NH_3$		
DDB-1	Pyrolysis Furnace	$NH_3$		
DDB-2	Pyrolysis Furnace	$NH_3$		
DDB-3	Pyrolysis Furnace	$NH_3$		
DDB-4	Pyrolysis Furnace	$NH_3$		
DDB-5	Pyrolysis Furnace	$NH_3$		
NH <sub>3</sub> Furnace Emiss	• • • • • • • • • • • • • • • • • • • •	NH₃ NH₃	11.93 27.47	52.25 120.33
Other Source Emissi	on Limits			
FUG-SCR	SCR System Fugitives	NH <sub>3</sub>	0.11	0.47

Sources Contributing to Plant 1,3-Butadiene Emissions

DM-1101 No. 1 Olefins Flare 1,3 Butadiene

Emission	Source	Air Contaminant	<u>Emissi</u>	Emission Rates *	
Point No. (1)	No. (1) Name (2)		lb/hr	TPY**	
				_	
DDM-3101	No. 2 Olefins Flare	1,3 Butadiene			
AM-1500	Dock Flare	1,3 Butadiene			
DF-101	Decoke Stack	1,3 Butadiene			
DF-104	Decoke Stack	1,3 Butadiene			
DF-105	Decoke Stack	1,3 Butadiene			
DDF-101	Decoke Stack	1,3 Butadiene			
DDF-104	Decoke Stack	1,3 Butadiene			
DDF-105	Decoke Stack	1,3 Butadiene			
AT-1210	No. 1 Olefins Cooling Tower	1,3 Butadiene			
DAT-3201	No. 2 Olefins Cooling Tower	1,3 Butadiene			
AF-4601A	Storm/Process Wastewater Tank	1,3 Butadiene			
AF-4601B	Storm/Process Wastewater Tank	1,3 Butadiene			
FAM1704	No. 1 Olefins Wastewater Facility	1,3 Butadiene			
FUGOF1WW	Fugitive Emissions	1,3 Butadiene			
FAM3706	No. 2 Olefins Wastewater Facility	1,3 Butadiene			
FUG2WWT	Fugitive Emissions	1,3 Butadiene			
FUG-V10F	No. 1 Olefins Unit Fugitives	1,3 Butadiene			
FUG-V20F	No. 2 Olefins Unit Fugitives	1,3 Butadiene			
FUG-VBD	Marine Dock Fugitives	1,3 Butadiene			
FUG-RAIL	Rail Loading Fugitives	1,3 Butadiene			
1,3-Butadiene Rou	tine Emission Cap	1,3-Butadiene	920.05	52.00	
Startup, Shutdown,	and Maintenance Emissions				
DM-1101/	Olefin Nos. 1 and 2 Flares Startup,	1,3-Butadiene	1,050.0	17.50	
DDM-3101	Shutdown, and Maintenance	_,0 _0.0.0.0.0.0	0		
	Emissions				
EU 00 E41 + 7 + 7	N. 4 10015	405 / "	0.01	0.01	
FUGOF1WW/	Nos. 1 and 2 Olefins Wastewater	1,3 Butadiene	0.01	0.01	
FUG2WWT	Unit Cleaning				

Emission	Source Air Contaminant		Emission Rates *	
Point No. (1) Name (2)		Name (3)	lb/hr	TPY**
Carres Cantribution	on to Blant Bonnono Emissione			_
Sources Contributing	ng to Plant Benzene Emissions			
DM-1101	No. 1 Olefins Flare	Benzene		
DDM-1301	No. 2 Olefins Flare	Benzene		
AM-1500	Dock Flare	Benzene		
DF-101	Decoke Stack	Benzene		
DF-104	Decoke Stack	Benzene		
DF-105	Decoke Stack	Benzene		
DDF-101	Decoke Stack	Benzene		
DDF-104	Decoke Stack	Benzene		
DDF-105	Decoke Stack	Benzene		
AT-1210	No. 1 Olefins Cooling Tower	Benzene		
DAT-3201	No. 2 Olefins Cooling Tower	Benzene		
AF-1105	Fixed-Roof Storage Tank	Benzene		
AF-1106	Fixed-Roof Storage Tank	Benzene		
AF-1905	Fixed-Roof Storage Tank	Benzene		
AF-3905	Fixed-Roof Storage Tank	Benzene		
DDF-1001	Fixed-Roof Storage Tank	Benzene		
DF-1001	Fixed-Roof Storage Tank	Benzene		
DF-502	Fixed-Roof Storage Tank	Benzene		
DF-916	Fixed-Roof Storage Tank	Benzene		
FUELTRK1	No.1 Olefins Truck Loading	Benzene		
FUELTRK2	No. 2 Olefins Truck Loading	Benzene		
FUELTRK3	Truck Loading Facility	Benzene		
AF-1101	External Floating Roof Tank	Benzene		
AF-1102	External Floating Roof Tank	Benzene		
AF-1901	External Floating Roof Tank	Benzene		
AF-1902	External Floating Roof Tank	Benzene		
AF-1903	External Floating Roof Tank	Benzene		
AF-1904	External Floating Roof Tank	Benzene		
AF-3101	External Floating Roof Tank	Benzene		

Emission	on Source		<u>Emissi</u>	on Rates *
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**
				_
AF-3102	External Floating Roof Tank	Benzene		
AF-3901	External Floating Roof Tank	Benzene		
AF-4601A	Storm/Process Wastewater Tank	Benzene		
AF-4601B	Storm/Process Wastewater Tank	Benzene		
FAM1704	No. 1 Olefins Wastewater Facility	Benzene		
FUGOF1WW	Fugitive Emissions	Benzene		
FAM3706	No. 2 Olefins Wastewater Facility	Benzene		
FUG2WWT	Fugitive Emissions	Benzene		
FUG-V10F	No. 1 Olefins Unit Fugitives	Benzene		
FUG-V20F	No. 2 Olefins Unit Fugitives	Benzene		
FUG-FTF	Tank Farm Fugitives	Benzene		
FUG-VSSH	Second Stage Hydrotreater	Benzene		
FUG-VBD	Marine Dock Fugitives	Benzene		
FUG-VCM	Metering Station Fugitives	Benzene		
Benzene Plant Rou	Benzene	18.14	15.49	
Startup, Shutdown, a	and Maintenance Emissions			
FUGOF1WW/	Nos. 1 and 2 Olefins Wastewater	Benzene	4.00	0.02
FUG2WWT	Unit Cleaning			
Sources Contribution	ng to Plant Ethylene Emissions			
DN 4404	N 4 01 5 FI	<b>-</b>		
DM-1101	No. 1 Olefins Flare	Ethylene		
DDM-3101	No. 2 Olefins Flare	Ethylene		
DF-101	Decoke Stack	Ethylene		
DF-104	Decoke Stack	Ethylene		
DF-105	Decoke Stack	Ethylene		
DDF-101	Decoke Stack	Ethylene		
DDF-104	Decoke Stack	Ethylene		
DDF-105	Decoke Stack	Ethylene		
AT-1210	No. 1 Olefins Cooling Tower	Ethylene		

Emission	Source	Air Contaminant	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**
DAT-3201	No. 2 Olefins Cooling Tower	Ethylene		
FUG-V10F	No. 1 Olefins Unit Fugitives	Ethylene		
FUG-V20F	No. 2 Olefins Unit Fugitives	Ethylene		
Ethylene Plant Routine Emission Cap		Ethylene	317.65	96.23
,		, ,		
Startup, Shutdown, a	and Maintenance Emissions			
DM-1101/ DDM-3101	Olefin Nos. 1 and 2 Flares Startup, Shutdown, and Maintenance Emissions	Ethylene	3,500.0 0	78.75
Sources Contribution	ng to Plant Propylene Emissions			
DM-1101	No. 1 Olefins Flare	Propylene		
DDM-3101	No. 2 Olefins Flare	Propylene		
AM-1500	Dock Flare	Propylene		
DF-101	Decoke Stack	Propylene		
DF-104	Decoke Stack	Propylene		
DF-105	Decoke Stack	Propylene		
DDF-101	Decoke Stack	Propylene		
DDF-104	Decoke Stack	Propylene		
DDF-105	Decoke Stack Propylene			
AT-1210	No. 1 Olefins Cooling Tower Propylene			
DAT-3201	No. 2 Olefins Cooling Tower	Propylene		
FUG-V10F	No. 1 Olefins Unit Fugitives	Propylene		
FUG-V20F	No. 2 Olefins Unit Fugitives	Propylene		
FUG-VBD	Marine Dock Fugitives	Propylene		
FUG-RAIL	Rail Loading Fugitives	Propylene		
P4PEDRYER1	PP4 Dryer Vents (Product Residual VOC)	Propylene		

Emission	Source	Air Contaminant	<u>Emissi</u>	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**	
P4PEDRYER2	PP4 Dryer Vents (Product Residual VOC)	Propylene			
Propylene Plant Ro	Propylene	551.95	117.93		
Startup, Shutdown, a	nd Maintenance Emissions				
DM-1101/ DDM-3101	Olefin Nos. 1 and 2 Flares Startup, Shutdown, and Maintenance Emissions	Propylene	3,500.0 0	78.75	

- (1) Emission point identification either specific equipment designation or emission point number from a plot plan.
- (2) Specific point source names. For fugitive sources, use an area name or fugitive source name.
- (3) NO<sub>x</sub> total oxides of nitrogen
  - VOC volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1.
  - 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 PM greater than 10 microns is emitted.
  - SO<sub>2</sub> sulfur dioxide
  - NH<sub>3</sub> ammonia
- (4) RESERVED.
- (5) RESERVED.
- (6) Emission Cap through October 31, 2007.
- (7) Emission Cap After October 31, 2007.
- \* Emission rates are based on and the facilities are limited by the following maximum operating schedule:

24	Hrs/dav	7	Davs/week	52	Weeks/year or	8.760	Hrs/vear
	,	_ •	_ = 0., 0, 0 0			<u> </u>	,

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

Dated <u>June 8, 2006</u>