

EMISSION SOURCES, EMISSIONS CAPS, AND INDIVIDUAL EMISSION LIMITATIONS

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.

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**

Sources Contributing to Plant NO_x Emissions

Furnace NO_x Emission Cap

DB-101A	Pyrolysis Furnace	NO _x
DB-101B	Pyrolysis Furnace	NO _x
DB-101C	Pyrolysis Furnace	NO _x
DB-101D	Pyrolysis Furnace	NO _x
DB-102A	Pyrolysis Furnace	NO _x
DB-102B	Pyrolysis Furnace	NO _x
DB-102C	Pyrolysis Furnace	NO _x
DB-102D	Pyrolysis Furnace	NO _x
DB-103	Pyrolysis Furnace	NO _x
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

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
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		
NO_x Furnace Emission Cap-Phase I (6)		NO_x	401.91	1703.11
NO_x Furnace Emission Cap-Phase II (7)		NO_x	284.70	1246.99

Other Source NO_x Routine 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_x Other Source Routine Emission Cap		NO_x	166.85	86.91

Total NO_x Routine Emission Plant Cap-Phase I (6)	NO_x
	1692.78

Startup, Shutdown, and Maintenance NO_x Emissions

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
DM-1101/ DDM-3101	Olefin Nos. 1 and 2 Flares Startup, Shutdown, and Maintenance Emissions	NO _x	1,227.4 0	30.68

Sources Contributing to Plant VOC Emissions**Furnace VOC Emission Cap**

DB-101A	Pyrolysis Furnace	VOC
DB-101B	Pyrolysis Furnace	VOC
DB-101C	Pyrolysis Furnace	VOC
DB-101D	Pyrolysis Furnace	VOC
DB-102A	Pyrolysis Furnace	VOC
DB-102B	Pyrolysis Furnace	VOC
DB-102C	Pyrolysis Furnace	VOC
DB-102D	Pyrolysis Furnace	VOC
DB-103	Pyrolysis Furnace	VOC
DB-104	Pyrolysis Furnace	VOC
DDB-101A	Pyrolysis Furnace	VOC
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

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
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		
VOC Furnace Emission Cap-Phase I (6)		VOC	20.66	90.49
VOC Furnace Emission Cap-Phase II (7)		VOC	23.63	103.49

Other Source VOC 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
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

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
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		
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		

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
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 1513.67 689.70**Startup, Shutdown, and Maintenance VOC Emissions

DM-1101/ DDM-3101	Olefin Nos. 1 and 2 Flares Startup, Shutdown, and Maintenance Emissions	VOC	3,500.0 0	87.50
FUGOF1WW/ FUG2WWT	Nos. 1 and 2 Olefins Wastewater Unit Cleaning	VOC	40	0.24

Sources Contributing to Plant CO EmissionsFurnace CO Emission Cap

DB-101A	Pyrolysis Furnace	CO
DB-101B	Pyrolysis Furnace	CO
DB-101C	Pyrolysis Furnace	CO
DB-101D	Pyrolysis Furnace	CO
DB-102A	Pyrolysis Furnace	CO

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
DB-102B	Pyrolysis Furnace	CO		
DB-102C	Pyrolysis Furnace	CO		
DB-102D	Pyrolysis Furnace	CO		
DB-103	Pyrolysis Furnace	CO		
DB-104	Pyrolysis Furnace	CO		
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	CO		
CO Furnace Emission Cap-Phase I (6)		CO	184.22	806.90
CO Furnace Emission Cap-Phase II (7)		CO	200.78	879.41
<u>Plant Other Source Routine CO Emission Cap</u>				
DM-1101	No. 1 Olefins Flare	CO		
DDM-3101	No. 2 Olefins Flare	CO		
AM-1500	Dock Flare	CO		

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
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 Emission Cap	CO	1086.54	264.63
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Startup, Shutdown, and Maintenance CO Emissions

DM-1101/ DDM-3101	Olefin Nos. 1 and 2 Flares Startup, Shutdown, and Maintenance Emissions	CO	6254.32	156.36
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Sources Contributing to Plant PM₁₀ EmissionsFurnace PM₁₀ Emission Cap

DB-101A	Pyrolysis Furnace	PM ₁₀
DB-101B	Pyrolysis Furnace	PM ₁₀
DB-101C	Pyrolysis Furnace	PM ₁₀
DB-101D	Pyrolysis Furnace	PM ₁₀
DB-102A	Pyrolysis Furnace	PM ₁₀
DB-102B	Pyrolysis Furnace	PM ₁₀

EMISSION SOURCES, EMISSIONS CAPS, AND INDIVIDUAL EMISSION LIMITATIONS

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
DB-102C	Pyrolysis Furnace	PM ₁₀		
DB-102D	Pyrolysis Furnace	PM ₁₀		
DB-103	Pyrolysis Furnace	PM ₁₀		
DB-104	Pyrolysis Furnace	PM ₁₀		
DDB-101A	Pyrolysis Furnace	PM ₁₀		
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		
PM₁₀ Furnace Emission Cap-Phase I (6)		PM₁₀	31.30	125.04
PM₁₀ Furnace Emission Cap-Phase II (7)		PM₁₀	38.98	143.00
<u>Other Source PM₁₀ Emission Cap</u>				
DF-101	Decoke Stack	PM ₁₀		

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
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		
J-2	Regeneration Knockout Drum	PM ₁₀		
DD-606	Hydrotreater Regenerator Stack	PM ₁₀		
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 PM₁₀ Emission Cap		PM₁₀	20.60	38.86

Sources Contributing to Plant SO₂ Emissions

Furnace SO₂ Emission Cap

DB-101A	Pyrolysis Furnace	SO ₂
DB-101B	Pyrolysis Furnace	SO ₂
DB-101C	Pyrolysis Furnace	SO ₂
DB-101D	Pyrolysis Furnace	SO ₂
DB-102A	Pyrolysis Furnace	SO ₂
DB-102B	Pyrolysis Furnace	SO ₂
DB-102C	Pyrolysis Furnace	SO ₂

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
DB-102D	Pyrolysis Furnace	SO ₂		
DB-103	Pyrolysis Furnace	SO ₂		
DB-104	Pyrolysis Furnace	SO ₂		
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 ₂		
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		
SO₂ Furnace Emission Cap-Phase I (6)		SO₂	53.66	11.75
SO₂ Furnace Emission Cap-Phase II (7)		SO₂	61.37	13.44
<u>Other Source SO₂ Emission Cap</u>				
DM-1101	No. 1 Olefins Flare	SO ₂		
DDM-3101	No. 2 Olefins Flare	SO ₂		
AM-1500	Dock Flare	SO ₂		

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
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 SO₂ Emission Cap	SO₂	96.15	9.85
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Sources Contributing to Plant NH₃ Emissions

Furnace NH₃ Emission Cap

DB-101A	Pyrolysis Furnace	NH ₃
DB-101B	Pyrolysis Furnace	NH ₃
DB-101C	Pyrolysis Furnace	NH ₃
DB-101D	Pyrolysis Furnace	NH ₃
DB-102A	Pyrolysis Furnace	NH ₃
DB-102B	Pyrolysis Furnace	NH ₃
DB-102C	Pyrolysis Furnace	NH ₃
DB-102D	Pyrolysis Furnace	NH ₃
DB-103	Pyrolysis Furnace	NH ₃
DB-104	Pyrolysis Furnace	NH ₃
DDB-101A	Pyrolysis Furnace	NH ₃
DDB-101B	Pyrolysis Furnace	NH ₃
DDB-101C	Pyrolysis Furnace	NH ₃
DDB-101D	Pyrolysis Furnace	NH ₃
DDB-102A	Pyrolysis Furnace	NH ₃
DDB-102B	Pyrolysis Furnace	NH ₃

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
DDB-102C	Pyrolysis Furnace	NH ₃		
DDB-102D	Pyrolysis Furnace	NH ₃		
DDB-104A	Pyrolysis Furnace	NH ₃		
DDB-104B	Pyrolysis Furnace	NH ₃		
DB-105	Pyrolysis Furnace	NH ₃		
DB-106	Pyrolysis Furnace	NH ₃		
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		
NH₃ Furnace Emission Cap-Phase I (6)		NH₃	11.93	52.25
NH₃ Furnace Emission Cap-Phase II (7)		NH₃	27.47	120.33

Other Source Emission Limits

FUG-SCR	SCR System Fugitives	NH ₃	0.11	0.47
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Sources Contributing to Plant 1,3-Butadiene Emissions

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

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
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 Routine Emission Cap**1,3-Butadiene 920.05 52.00**Startup, Shutdown, and Maintenance Emissions

DM-1101/ DDM-3101	Olefin Nos. 1 and 2 Flares Startup, Shutdown, and Maintenance Emissions	1,3-Butadiene	1,050.0 0	17.50
FUGOF1WW/ FUG2WWT	Nos. 1 and 2 Olefins Wastewater Unit Cleaning	1,3 Butadiene	0.01	0.01

Sources Contributing 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

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
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		
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		

EMISSION SOURCES, EMISSIONS CAPS, AND INDIVIDUAL EMISSION LIMITATIONS

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
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 Routine Emission Cap**Benzene****18.14****15.49**Startup, Shutdown, and Maintenance Emissions

FUGOF1WW/ FUG2WWT	Nos. 1 and 2 Olefins Wastewater Unit Cleaning
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Benzene

4.00**0.02**Sources Contributing to Plant Ethylene Emissions

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
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, and Maintenance Emissions

EMISSION SOURCES, EMISSIONS CAPS, AND INDIVIDUAL EMISSION LIMITATIONS

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	AIR CONTAMINANTS DATA Emission Rates *	
			lb/hr	TPY**
DM-1101/ DDM-3101	Olefin Nos. 1 and 2 Flares Startup, Shutdown, and Maintenance Emissions	Ethylene	3,500.0 0	78.75

Sources Contributing 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
P4PEDRYER2	PP4 Dryer Vents (Product Residual VOC)	Propylene

Propylene Plant Routine Emission Cap	Propylene	551.95	117.93
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Startup, Shutdown, and Maintenance Emissions

DM-1101/	Olefin Nos. 1 and 2 Flares Startup,	Propylene	3,500.0	78.75
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EMISSION SOURCES, EMISSIONS CAPS, AND INDIVIDUAL EMISSION LIMITATIONS

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
DDM-3101	Shutdown, and Maintenance Emissions		0	

EMISSION SOURCES, EMISSIONS CAPS, AND INDIVIDUAL EMISSION
LIMITATIONS

- (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_x - total oxides of nitrogen
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1.
CO - carbon monoxide
PM₁₀ - 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.
SO₂ - sulfur dioxide
NH₃ - 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/day 7 Days/week 52 Weeks/year or 8,760 Hrs/year

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

Dated November 9, 2005