

EMISSION SOURCES - EMISSION CAPS AND INDIVIDUAL EMISSION LIMITATIONS

Flexible Permit Numbers 22690 and PSDTX751M1

This table lists the emission caps and individual emission limitations for all sources of air contaminants on the applicant's property covered by this permit. The emission caps and individual emission limitations shown are those derived from information submitted as part of the application for permit and allowed for these facilities. Any proposed change in emission caps or individual emission limitations will require an application for a modification of the facilities covered by this permit.

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminate Name (3)	Emission Cap or Individual Emission Limit *	
			lb/hr	TPY**

CO SOURCES

Ethylene Unit 22

22-36-1	22 Furnace 1	CO
22-36-2	22 Furnace 2	CO
22-36-3	22 Furnace 3	CO
22-36-4	22 Furnace 4	CO
22-36-5	22 Furnace 5	CO
22-36-6	22 Furnace 6	CO
22-36-7	22 Furnace 7	CO
22-36-8	22 Furnace 8	CO

Ethylene Unit 24

24-36-1	24 Furnace 1	CO
24-36-2	24 Furnace 2	CO
24-36-3	24 Furnace 3	CO
24-36-4	24 Furnace 4	CO
24-36-5	24 Furnace 5	CO
24-36-6	24 Furnace 6	CO
24-36-7	24 Steam Superheater 7	CO
24-36-8	24 DAC Hydrotreater Heater 8	CO
24-36-9	24 Furnace 9	CO

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminate Name (3)	Emission Cap or Individual Emission Limit *	
			lb/hr	TPY**
Ethylene Unit 33				
33-36-1	33 Furnace 1	CO (6)		
33-36-2	33 Furnace 2	CO (6)		
33-36-3	33 Furnace 3	CO (6)		
33-36-4	33 Furnace 4	CO (6)		
33-36-5	33 Furnace 5	CO (6)		
33-36-6	33 Furnace 6	CO (6)		
33-36-7	33 Furnace 7	CO (6)		
33-36-8	33 Furnace 8	CO (6)		
33-36-9	33 Furnace 9	CO (6)		
Flare System				
56-61-10	Unit 21, 22 Low-Pressure Flare (Flare 10)	CO		
56-61-12	Unit 22 High-Pressure Flare (Flare 12)	CO		
56-61-14	Unit 24 High-Pressure Flare (Flare 14)	CO		
56-61-20	Unit 24 Low-Pressure Flare (Flare 20)	CO		
56-61-22	Unit 33 Process Flare (Flare 22)	CO (6)		
	Emission Cap	CO	478.74	2058.44

EMISSION SOURCES - EMISSION CAPS AND INDIVIDUAL EMISSION LIMITATIONS

AIR CONTAMINANTS DATA				
Emission Point No. (1)	Source Name (2)	Air Contaminate Name (3)	Emission Cap or Individual Emission Limit *	
			lb/hr	TPY**
Decoking Equipment - Start-Up, Shutdown, and Maintenance				
22-95-3, 22-95-3A, 22-95-3B, and 22-95-3C	U22 Decoke	CO		
24-95-300	U24 Decoke	CO		
33-95-376 and 33-95-376A	U33 Decoke	CO		
	Emission Cap	CO	792.82	89.86
Flare System				
56-61-4	Unit 10D/18 Process Flare (Flare 4)	CO		
56-61-8	Unit 10, 12 Low-Pressure Flare (Flare 8)	CO		
56-61-9	Unit 10, 12 High-Pressure Flare (Flare 9)	CO		
	Emission Cap	CO	63.13	40.89
Flare System - Start-Up, Shutdown, and Maintenance				
56-61-4	Unit 10D/18 Process Flare (Flare 4)	CO		
56-61-8	Unit 10, 12 Low-Pressure Flare (Flare 8)	CO		
56-61-9	Unit 10, 12 High-Pressure Flare (Flare 9)	CO		
56-61-10	Unit 21, 22 Low-Pressure Flare (Flare 10)	CO		

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminate Name (3)	Emission Cap or Individual Emission Limit *	
			lb/hr	TPY**
56-61-12	Unit 22 High-Pressure Flare (Flare 12)	CO		
56-61-14	Unit 24 High-Pressure Flare (Flare 14)	CO		
56-61-20	Unit 24 Low-Pressure Flare (Flare 20)	CO		
56-61-22	Unit 33 Process Flare (Flare 22)	CO		
	Emission Cap	CO	7505.60	137.12

H₂S SOURCES**Flare System**

56-61-4	Unit 10D/18 Process Flare (Flare 4)	H ₂ S		
56-61-8	Unit 10, 12 Low-Pressure Flare (Flare 8)	H ₂ S		
56-61-9	Unit 10, 12 High-Pressure Flare (Flare 9)	H ₂ S		
56-61-10	Unit 21, 22 Low-Pressure Flare (Flare 10)	H ₂ S		
56-61-12	Unit 22 High-Pressure Flare (Flare 12)	H ₂ S		
56-61-14	Unit 24 High-Pressure Flare (Flare 14)	H ₂ S		
56-61-20	Unit 24 Low-Pressure Flare (Flare 20)	H ₂ S		
56-61-22	Unit 33 Process Flare (Flare 22)	H ₂ S		
	Emission Cap	H₂S	0.06	0.26

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminate Name (3)	Emission Cap or Individual Emission Limit *	
			lb/hr	TPY**

NO_x SOURCES**Ethylene Unit 22**

22-36-1	22 Furnace 1	NO _x
22-36-2	22 Furnace 2	NO _x
22-36-3	22 Furnace 3	NO _x
22-36-4	22 Furnace 4	NO _x
22-36-5	22 Furnace 5	NO _x
22-36-6	22 Furnace 6	NO _x
22-36-7	22 Furnace 7	NO _x
22-36-8	22 Furnace 8	NO _x
22-95-27	Propylene Compressor Turbine	NO _x

Ethylene Unit 24

24-36-1	24 Furnace 1	NO _x
24-36-2	24 Furnace 2	NO _x
24-36-3	24 Furnace 3	NO _x
24-36-4	24 Furnace 4	NO _x
24-36-5	24 Furnace 5	NO _x
24-36-6	24 Furnace 6	NO _x
24-36-7	24 Steam Superheater 7	NO _x
24-36-8	24 DAC Hydrotreater Heater 8	NO _x
24-36-9	24 Furnace 9	NO _x

Ethylene Unit 33

33-36-1	33 Furnace 1	NO _x (6)
33-36-2	33 Furnace 2	NO _x (6)
33-36-3	33 Furnace 3	NO _x (6)

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminate Name (3)	Emission Cap or Individual Emission Limit *	
			lb/hr	TPY**
33-36-4	33 Furnace 4	NO _x (6)		
33-36-5	33 Furnace 5	NO _x (6)		
33-36-6	33 Furnace 6	NO _x (6)		
33-36-7	33 Furnace 7	NO _x (6)		
33-36-8	33 Furnace 8	NO _x (6)		
33-36-9	33 Furnace 9	NO _x (6)		

Flare System

56-61-10	Unit 21, 22 Low-Pressure Flare (Flare 10)	NO _x		
56-61-12	Unit 22 High-Pressure Flare (Flare 12)	NO _x		
56-61-14	Unit 24 High-Pressure Flare (Flare 14)	NO _x		
56-61-20	Unit 24 Low-Pressure Flare (Flare 20)	NO _x		
56-61-22	Unit 33 Process Flare (Flare 22)	NO _x (6)		
Emission Cap		NO_x	436.25	1896.24

Flare System

56-61-4	Unit 10D/18 Process Flare (Flare 4)	NO _x		
56-61-8	Unit 10, 12 Low-Pressure Flare (Flare 8)	NO _x		
56-61-9	Unit 10, 12 High-Pressure Flare (Flare 9)	NO _x		
Emission Cap		NO_x	12.39	8.00

EMISSION SOURCES - EMISSION CAPS AND INDIVIDUAL EMISSION LIMITATIONS

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminate Name (3)	Emission Cap or Individual Emission Limit *	
			lb/hr	TPY**
Flare System - Start-Up, Shutdown, and Maintenance				
56-61-4	Unit 10D/18 Process Flare (Flare 4)	NO _x		
56-61-8	Unit 10, 12 Low-Pressure Flare (Flare 8)	NO _x		
56-61-9	Unit 10, 12 High-Pressure Flare (Flare 9)	NO _x		
56-61-10	Unit 21, 22 Low-Pressure Flare (Flare 10)	NO _x		
56-61-12	Unit 22 High-Pressure Flare (Flare 12)	NO _x		
56-61-14	Unit 24 High-Pressure Flare (Flare 14)	NO _x		
56-61-20	Unit 24 Low-Pressure Flare (Flare 20)	NO _x		
56-61-22	Unit 33 Process Flare (Flare 22)	NO _x		
	Emission Cap	NO _x	1513.37	28.82

PM/PM₁₀ SOURCES

Cooling Towers

54-22-5	Unit 12 Cooling Tower (CT-5)	PM
54-22-6	Unit 10ABC Cooling Tower (CT-6)	PM
54-22-7	Unit 10ABC Cooling Tower (CT-7)	PM
54-22-9	Unit 10D/18 Cooling Tower (CT-9)	PM
54-22-12	Unit 21/22 Cooling Tower (CT-12)	PM

EMISSION SOURCES - EMISSION CAPS AND INDIVIDUAL EMISSION LIMITATIONS

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminate Name (3)	Emission Cap or Individual Emission Limit *	
			lb/hr	TPY**
54-22-13	Unit 24 Cooling Tower (CT-13)	PM		
54-22-17	Unit 33 Cooling Tower (CT-17)	PM		
	Emission Cap	PM	27.16	118.97

Ethylene Unit 22

22-36-1	22 Furnace 1	PM ₁₀
22-36-2	22 Furnace 2	PM ₁₀
22-36-3	22 Furnace 3	PM ₁₀
22-36-4	22 Furnace 4	PM ₁₀
22-36-5	22 Furnace 5	PM ₁₀
22-36-6	22 Furnace 6	PM ₁₀
22-36-7	22 Furnace 7	PM ₁₀
22-36-8	22 Furnace 8	PM ₁₀

Ethylene Unit 24

24-36-1	24 Furnace 1	PM ₁₀
24-36-2	24 Furnace 2	PM ₁₀
24-36-3	24 Furnace 3	PM ₁₀
24-36-4	24 Furnace 4	PM ₁₀
24-36-5	24 Furnace 5	PM ₁₀
24-36-6	24 Furnace 6	PM ₁₀
24-36-7	24 Steam Superheater 7	PM ₁₀
24-36-8	24 DAC Hydrotreater Heater 8	PM ₁₀
24-36-9	24 Furnace 9	PM ₁₀

Ethylene Unit 33

33-36-1	33 Furnace 1	PM ₁₀ (6)
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EMISSION SOURCES - EMISSION CAPS AND INDIVIDUAL EMISSION LIMITATIONS

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminate Name (3)	Emission Cap or Individual Emission Limit *	
			lb/hr	TPY**
33-36-2	33 Furnace 2	PM ₁₀ (6)		
33-36-3	33 Furnace 3	PM ₁₀ (6)		
33-36-4	33 Furnace 4	PM ₁₀ (6)		
33-36-5	33 Furnace 5	PM ₁₀ (6)		
33-36-6	33 Furnace 6	PM ₁₀ (6)		
33-36-7	33 Furnace 7	PM ₁₀ (6)		
33-36-8	33 Furnace 8	PM ₁₀ (6)		
33-36-9	33 Furnace 9	PM ₁₀ (6)		
Emission Cap		PM₁₀	41.44	181.52

Start-Up, Shutdown, and Maintenance

22-95-(3, 3A, 3B, and 3C)	U22 Decoke	PM
24-95-300	U24 Decoke	PM
33-95-376 and 33-95-376A	U33 Decoke	PM

CPC-ABLAST	Abrasive Blasting	PM
CPC-PAINT	Painting	PM
Catalyst	Catalyst Handling	PM

Emission Cap	PM	621.98	67.66
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SO₂ SOURCES**Ethylene Unit 22**

22-36-1	22 Furnace 1	SO ₂
22-36-2	22 Furnace 2	SO ₂

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminate Name (3)	Emission Cap or Individual Emission Limit *	
			lb/hr	TPY**
22-36-3	22 Furnace 3	SO ₂		
22-36-4	22 Furnace 4	SO ₂		
22-36-5	22 Furnace 5	SO ₂		
22-36-6	22 Furnace 6	SO ₂		
22-36-7	22 Furnace 7	SO ₂		
22-36-8	22 Furnace 8	SO ₂		

Ethylene Unit 24

24-36-1	24 Furnace 1	SO ₂
24-36-2	24 Furnace 2	SO ₂
24-36-3	24 Furnace 3	SO ₂
24-36-4	24 Furnace 4	SO ₂
24-36-5	24 Furnace 5	SO ₂
24-36-6	24 Furnace 6	SO ₂
24-36-7	24 Steam Superheater 7	SO ₂
24-36-8	24 DAC Hydrotreater Heater 8	SO ₂

24-36-9	24 Furnace 9	SO ₂
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Ethylene Unit 33

33-36-1	33 Furnace 1	SO ₂ (6)
33-36-2	33 Furnace 2	SO ₂ (6)
33-36-3	33 Furnace 3	SO ₂ (6)
33-36-4	33 Furnace 4	SO ₂ (6)
33-36-5	33 Furnace 5	SO ₂ (6)
33-36-6	33 Furnace 6	SO ₂ (6)
33-36-7	33 Furnace 7	SO ₂ (6)
33-36-8	33 Furnace 8	SO ₂ (6)
33-36-9	33 Furnace 9	SO ₂ (6)

Emission Cap	SO₂	223.95	374.53
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EMISSION SOURCES - EMISSION CAPS AND INDIVIDUAL EMISSION LIMITATIONS

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminate Name (3)	Emission Cap or Individual Emission Limit *	
			lb/hr	TPY**
Flare System				
56-61-4	Unit 10D/18 Process Flare (Flare 4)	SO ₂		
56-61-8	Unit 10, 12 Low-Pressure Flare (Flare 8)	SO ₂		
56-61-9	Unit 10, 12 High-Pressure Flare (Flare 9)	SO ₂		
56-61-10	Unit 21, 22 Low-Pressure Flare (Flare 10)	SO ₂		
56-61-12	Unit 22 High-Pressure Flare (Flare 12)	SO ₂		
56-61-14	Unit 24 High-Pressure Flare (Flare 14)	SO ₂		
56-61-20	Unit 24 Low-Pressure Flare (Flare 20)	SO ₂		
56-61-22	Unit 33 Process Flare (Flare 22)	SO ₂ (6)		
	Emission Cap	SO ₂	18.05	24.72

VOC SOURCES

Ethylene Unit 22

22-36-1	22 Furnace 1	VOC
22-36-2	22 Furnace 2	VOC
22-36-3	22 Furnace 3	VOC
22-36-4	22 Furnace 4	VOC
22-36-5	22 Furnace 5	VOC
22-36-6	22 Furnace 6	VOC

EMISSION SOURCES - EMISSION CAPS AND INDIVIDUAL EMISSION LIMITATIONS

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminate Name (3)	Emission Cap or Individual Emission Limit *	
			lb/hr	TPY**
22-36-7	22 Furnace 7	VOC		
22-36-8	22 Furnace 8	VOC		

Ethylene Unit 24

24-36-1	24 Furnace 1	VOC
24-36-2	24 Furnace 2	VOC
24-36-3	24 Furnace 3	VOC
24-36-4	24 Furnace 4	VOC
24-36-5	24 Furnace 5	VOC
24-36-6	24 Furnace 6	VOC
24-36-7	24 Steam Superheater 7	VOC
24-36-8	24 DAC Hydrotreater Heater 8	VOC
24-36-9	24 Furnace 9	VOC

Ethylene Unit 33

33-36-1	33 Furnace 1	VOC
33-36-2	33 Furnace 2	VOC
33-36-3	33 Furnace 3	VOC
33-36-4	33 Furnace 4	VOC
33-36-5	33 Furnace 5	VOC
33-36-6	33 Furnace 6	VOC
33-36-7	33 Furnace 7	VOC
33-36-8	33 Furnace 8	VOC
33-36-9	33 Furnace 9	VOC

Process Fugitive Equipment

10.1-0-0	Unit 10AC Process Fugitives (4)	VOC
10.2-0-0	Unit 10D Process Fugitives (4)	VOC
10.3-0-0	Unit 10B Process Fugitives (4)	VOC
12-0-0	Unit 12 Process Fugitives (4)	VOC
18-0-0	Unit 18 Process Fugitives (4)	VOC

EMISSION SOURCES - EMISSION CAPS AND INDIVIDUAL EMISSION LIMITATIONS

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminate Name (3)	Emission Cap or Individual Emission Limit *	
			lb/hr	TPY**
21-0-0	Unit 21 Process Fugitives (4)	VOC		
24.1-0-0	Unit 24.1 Process Fugitives (4)	VOC		
22-0-0	Unit 22 Process Fugitives (4)	VOC		
24-0-0	Unit 24 Process Fugitives (4)	VOC		
33-0-0	Unit 33 Process Fugitives (4)	VOC		

Cooling Towers

54-22-5	Unit 12 Cooling Tower (CT-5)	VOC
54-22-6	Unit 10ABC Cooling Tower (CT-6)	VOC
54-22-7	Unit 10ABC Cooling Tower (CT-7)	VOC
54-22-9	Unit 10D/18 Cooling Tower (CT-9)	VOC
54-22-12	Unit 21/22 Cooling Tower (CT-12)	VOC
54-22-13	Unit 24 Cooling Tower (CT-13)	VOC
54-22-17	Unit 33 Cooling Tower (CT-17)	VOC

Fixed-Roof Storage Tanks

24-95-314	Methanol Storage Tank	VOC
33-95-10	Methanol Storage Tank	VOC
33-95-14	TBC Storage Tank	VOC

Lube/Seal Reservoirs

10-95-328	D-328 Seal Oil Reservoir	VOC
10-95-357	D-357 Lube/Seal Oil Reservoir	VOC
18-95-54	D-54 Lube/Seal Oil Reservoir	VOC
21-95-120	D-120 Lube/Seal Oil Reservoir	VOC
22-95-100	D-100 Lube Oil Reservoir	VOC
22-95-101	D-101 Seal Oil Reservoir	VOC
22-95-120	D-120 Lube/Seal Oil Reservoir	VOC
22-95-130	D-130 Lube/Seal Oil Reservoir	VOC

EMISSION SOURCES - EMISSION CAPS AND INDIVIDUAL EMISSION LIMITATIONS

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminate Name (3)	Emission Cap or Individual Emission Limit *	
			lb/hr	TPY**
24-95-304	D-304 Lube/Seal Oil Reservoir	VOC		
24-95-305	D-305 Lube/Seal Oil Reservoir	VOC		
24-95-306	D-306 Lube/Seal Oil Reservoir	VOC		
24-95-307	Expander Lube Oil Reservoir	VOC		
33-95-15	C-101 (Cracked Gas)	VOC		
33-95-17	C-102 (Ethylene)	VOC		
33-95-19	C-103 (Propylene)	VOC		
33-95-390	C-101 (Cracked Gas)	VOC		
33-95-392	C-102 (Ethylene)	VOC		
33-95-394	C-103 (Propylene)	VOC		
10-95-3572	C-357 (Propylene)- 2nd vent	VOC		
10-95-357A	C-357 (Propylene)- degas chamber	VOC		
24-95-319	C-100 (Cracked Gas)	VOC		
24-95-320	C-101 (Ethylene)	VOC		
24-95-321	C-102 (Propylene)	VOC		

Sumps

10.1-SUMP1	10.1 Oily Water Sewer Sump	VOC
12-SUMP1	12 Oily Water Sewer Sump	VOC
21/22-SUMP1	21/22 Oily Water Sewer Sump	VOC
24-SUMP2	24 Ethylene Sodium Hydroxide Sump	VOC
24-SUMP3	24 Oily Water Sewer Sump	VOC
33-SUMP1	33 Sodium Hydroxide Sump	VOC
33-SUMP2	33 Water Sludge Pit	VOC
33-SUMP3	33 Oily Water Sewer Sump	VOC
33-SUMP4	33 Blowdown Drum Sump	VOC

Flare System

56-61-4	Unit 10D/18 Process Flare	VOC
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EMISSION SOURCES - EMISSION CAPS AND INDIVIDUAL EMISSION LIMITATIONS

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminate Name (3)	Emission Cap or Individual Emission Limit *	
			lb/hr	TPY**
56-61-8	(Flare 4) Unit 10, 12 Low-Pressure Flare	VOC		
56-61-9	(Flare 8) Unit 10, 12 High-Pressure Flare	VOC		
56-61-10	(Flare 9) Unit 21, 22 Low-Pressure Flare	VOC		
56-61-12	(Flare 10) Unit 22 High-Pressure Flare	VOC		
	(Flare 12)			
56-61-14	Unit 24 High-Pressure Flare	VOC		
	(Flare 14)			
56-61-20	Unit 24 Low-Pressure Flare	VOC		
	(Flare 20)			
56-61-22	Unit 33 Process Flare (Flare 22)	VOC		

Atmospheric Vents

10ABC-AV	Unit 10ABC Analyzer Vents	VOC		
10D-AV	Unit 10D Analyzer Vents	VOC		
12-AV	Unit 12 Analyzer Vents	VOC		
18-AV	Unit 18 Analyzer Vents	VOC		
21-AV	Unit 21 Analyzer Vents	VOC		
22-AV	Unit 22 Analyzer Vents	VOC		
24-AV	Unit 24 Analyzer Vents	VOC		
33-AV	Unit 33 Analyzer Vents	VOC		
	Emission Cap	VOC	127.95	494.24

Start-Up, Shutdown, and Maintenance

56-61-4	Unit 10D/18 Process Flare (Flare 4)	VOC		
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AIR CONTAMINANTS DATA				
Emission Point No. (1)	Source Name (2)	Air Contaminate Name (3)	Emission Cap or Individual Emission Limit *	
			lb/hr	TPY**
56-61-8	Unit 10, 12 Low-Pressure Flare (Flare 8)	VOC		
56-61-9	Unit 10, 12 High-Pressure Flare (Flare 9)	VOC		
56-61-10	Unit 21, 22 Low-Pressure Flare (Flare 10)	VOC		
56-61-12	Unit 22 High-Pressure Flare (Flare 12)	VOC		
56-61-14	Unit 24 High-Pressure Flare (Flare 14)	VOC		
56-61-20	Unit 24 Low-Pressure Flare (Flare 20)	VOC		
56-61-22	Unit 33 Process Flare (Flare 22)	VOC		
CPC-Paint	Painting	VOC		
MSSATM	Atmospheric Venting/Purging (See Attachment B for a list of activities)	VOC		
Emission Cap		VOC	5247.80	124.41

Benzene Sources (5)

10.1-0-0	Unit 10AC Process Fugitives (4)	Benzene		
10.2-0-0	Unit 10D Process Fugitives (4)	Benzene		
10.3-0-0	Unit 10B Process Fugitives (4)	Benzene		
12-0-0	Unit 12 Process Fugitives (4)	Benzene		
21-0-0	Unit 21 Process Fugitives (4)	Benzene		
24.1-0-0	Unit 24.1 Process Fugitives (4)	Benzene		
22-0-0	Unit 22 Process Fugitives (4)	Benzene		
24-0-0	Unit 24 Process Fugitives (4)	Benzene		
33-0-0	Unit 33 Process Fugitives (4)	Benzene		
Emission Cap		Benzene	1.74	7.60

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminate Name (3)	Emission Cap or Individual Emission Limit *	
			lb/hr	TPY**
Start-Up, Shutdown, and Maintenance				
56-61-4	Unit 10D/18 Process Flare (Flare 4)	Benzene		
56-61-8	Unit 10, 12 Low-Pressure Flare (Flare 8)	Benzene		
56-61-9	Unit 10, 12 High-Pressure Flare (Flare 9)	Benzene		
56-61-10	Unit 21, 22 Low-Pressure Flare (Flare 10)	Benzene		
56-61-12	Unit 22 High-Pressure Flare (Flare 12)	Benzene		
56-61-14	Unit 24 High-Pressure Flare (Flare 14)	Benzene		
56-61-20	Unit 24 Low-Pressure Flare (Flare 20)	Benzene		
56-61-22	Unit 33 Process Flare (Flare 22)	Benzene		
MSSATM	Atmospheric Venting/Purging (See Attachment B for a list of activities)	Benzene		
	Emission Cap	Benzene	176.72	2.88

Individual Emission Rate Limits

22-95-27	Propylene Compressor Turbine	CO	7.01	30.72
		PM ₁₀	0.84	3.70
		SO ₂	0.44	1.91
		VOC	1.41	6.17

EMISSION SOURCES - EMISSION CAPS AND INDIVIDUAL EMISSION LIMITATIONS

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminate Name (3)	Emission Cap or Individual Emission Limit *	
			lb/hr	TPY**

Permits by Rule (PBRs) Incorporated by Reference (7)

33-AIRCOMP2	Unit 33 Diesel Engine (Reg. 75479)	VOC	0.06	0.05
		NO _x	3.63	2.96
		CO	2.98	2.43
		SO ₂	0.92	0.75
		PM ₁₀	0.08	0.07
24-AIRCOMP	Unit 24 Diesel Engine (Reg. 86119)	VOC	0.05	0.12
		NO _x	2.08	4.99
		CO	2.44	5.85
		SO ₂	0.76	1.82
		PM ₁₀	0.07	0.17
24-AIRCOMP2	Unit 24 Diesel Engine (Reg. 86119)	VOC	0.14	0.09
		NO _x	7.37	4.99
		CO	2.88	1.95
		SO ₂	0.89	0.60
		PM ₁₀	0.05	0.03

EMISSION SOURCES - EMISSION CAPS AND INDIVIDUAL EMISSION LIMITATIONS

- (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) CO - carbon monoxide
H₂S - hydrogen sulfide
NO_x - total oxides of nitrogen
PM - particulate matter, suspended in the atmosphere, greater than 10 microns in diameter.
PM₁₀ - particulate matter 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
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
- (4) Emission rate is an estimate and compliance is demonstrated by meeting the requirements of the applicable special conditions and permit application representations.
- (5) Benzene from other facilities is included in the VOC cap and does not contribute to the benzene emission cap.
- (6) PSDTX751M1 pollutant.
- (7) Referenced permits by rule are listed for information only. The required controls and monitoring are specified in the registrations (numbers listed with each emissions point) and rules.

* Emission rates are based on and the facilities are limited by the following maximum operating schedule:

Hrs/day 24 Days/week 7 Weeks/year 52

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

Dated: June 7, 2011