

EMISSION SOURCES - EMISSION CAPS AND INDIVIDUAL EMISSION LIMITATIONS

Flexible Permit Numbers 22690 and PSD-TX-751M1

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

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

Ethylene Unit 33

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

Flare System

56-61-10	Unit 21, 22 Flare (Flare 10)	CO
56-61-12	Unit 22 Flare (Flare 12)	CO
56-61-14	Unit 24 Flare (Flare 14)	CO
56-61-20	Unit 24 Process Flare (Flare 20)	CO
56-61-22	Unit 33 Flare (Flare 22)	CO (8)

Emission Cap	CO	478.62	2096.06
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Decoking Equipment - Start-Up, Shutdown, and Maintenance

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

Emission Cap	CO	792.82	89.86
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EMISSION SOURCES - EMISSION CAPS AND INDIVIDUAL EMISSION LIMITATIONS

AIR CONTAMINANTS DATA

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

Flare System

56-61-4	Unit 10D/18 Flare (Flare 4)	CO
56-61-8	Unit 10, 12 Low Pressure Flare 8	CO
56-61-9	Unit 10, 12 High Pressure Flare 9	CO

Emission Cap	CO	1.79	7.84
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Flare System - Start-Up, Shutdown, and Maintenance

56-61-4	Unit 10D/18 Flare (Flare 4)	CO
56-61-8	Unit 10, 12 Low Pressure Flare 8	CO
56-61-10	Unit 21, 22 Flare (Flare 10)	CO
56-61-20	Unit 24 Process Flare (Flare 20)	CO
56-61-22	Unit 33 Flare (Flare 22)	CO

Emission Cap	CO	172.49	1.53
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H₂S Sources

Flare System

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

Emission Cap	H₂S	0.10	0.29
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AIR CONTAMINANTS DATA

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

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

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

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AIR CONTAMINANTS DATA

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

Ethylene Unit 33

33-36-1	33 Furnace 1	NO _x (8)
33-36-2	33 Furnace 2	NO _x (8)
33-36-3	33 Furnace 3	NO _x (8)
33-36-4	33 Furnace 4	NO _x (8)
33-36-5	33 Furnace 5	NO _x (8)
33-36-6	33 Furnace 6	NO _x (8)
33-36-7	33 Furnace 7	NO _x (8)
33-36-8	33 Furnace 8	NO _x (8)
33-36-9	33 Furnace 9	NO _x (8)

Flare System

56-61-10	Unit 21, 22 Flare (Flare 10)	NO _x
56-61-12	Unit 22 Flare (Flare 12)	NO _x
56-61-14	Unit 24 Flare (Flare 14)	NO _x
56-61-20	Unit 24 Process Flare (Flare 20)	NO _x
56-61-22	Unit 33 Flare (Flare 22)	NO _x (8)

Emission Cap	NO_x	481.86	2110.54
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Flare System

56-61-4	Unit 10D/18 Flare (Flare 4)	NO _x
56-61-8	Unit 10, 12 Low Pressure Flare 8	NO _x
56-61-9	Unit 10, 12 High Pressure Flare 9	NO _x

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AIR CONTAMINANTS DATA

Emission Point No. (1) TPY	Source Name (2)	Air Contaminant Name (3)	Emission Cap or Individual Emission Limit *	
			lb/hr	
	Emission Cap	NO _x	0.34	1.50

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AIR CONTAMINANTS DATA

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

Flare System - Start-Up, Shutdown, and Maintenance

56-61-4	Unit 10D/18 Flare (Flare 4)	NO _x		
56-61-8	Unit 10, 12 Low Pressure Flare 8	NO _x		
56-61-10	Unit 21, 22 Flare (Flare 10)	NO _x		
56-61-20	Unit 24 Process Flare (Flare 20)	NO _x		
56-61-22	Unit 33 Flare (Flare 22)	NO _x		
Emission Cap		NO_x	24.68	0.25

PM and PM/PM₁₀ Sources

Cooling Towers

54-22-5	Unit 12 Cooling Tower (CT-5)	PM/PM ₁₀		
54-22-6	Unit 10ABC Cooling Tower (CT-6)	PM/PM ₁₀		
54-22-7	Unit 10ABC Cooling Tower (CT-7)	PM/PM ₁₀		
54-22-9	Unit 10D/18 Cooling Tower (CT-9)	PM/PM ₁₀		
54-22-12	Unit 21/22 Cooling Tower (CT-12)	PM/PM ₁₀		
54-22-13	Unit 24 Cooling Tower (CT-13)	PM/PM ₁₀		
54-22-17	Unit 33 Cooling Tower (CT-17)	PM/PM ₁₀		
Emission Cap		PM/PM₁₀	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

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Cap or Individual Emission Limit lb/hr	*
<u>TPY</u>				
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 (8)		
33-36-2	33 Furnace 2	PM ₁₀ (8)		
33-36-3	33 Furnace 3	PM ₁₀ (8)		
33-36-4	33 Furnace 4	PM ₁₀ (8)		
33-36-5	33 Furnace 5	PM ₁₀ (8)		
33-36-6	33 Furnace 6	PM ₁₀ (8)		
33-36-7	33 Furnace 7	PM ₁₀ (8)		
33-36-8	33 Furnace 8	PM ₁₀ (8)		
33-36-9	33 Furnace 9	PM ₁₀ (8)		
Emission Cap		PM₁₀	41.43	181.53
Decoking - Start up, Shutdown and Maintenance				
22-95-(3, 3A, 3B & 3C)		U22 Decoke	PM/PM ₁₀	

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Emission Point No. (1) TPY	Source Name (2)	Air Contaminant Name (3)	Emission Cap or Individual Emission Limit *	
			lb/hr	
24-95-300	U24 Decoke	PM/PM ₁₀		
33-95-376 and 376A	U33 Decoke	PM/PM ₁₀		
	Emission Cap	PM/PM₁₀	607.69	62.09

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AIR CONTAMINANTS DATA

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

SO₂ Sources

Ethylene Unit 22

22-36-1	22 Furnace 1	SO ₂
22-36-2	22 Furnace 2	SO ₂
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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AIR CONTAMINANTS DATA

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

Ethylene Unit 33

33-36-1	33 Furnace 1	SO ₂ (8)		
33-36-2	33 Furnace 2	SO ₂ (8)		
33-36-3	33 Furnace 3	SO ₂ (8)		
33-36-4	33 Furnace 4	SO ₂ (8)		
33-36-5	33 Furnace 5	SO ₂ (8)		
33-36-6	33 Furnace 6	SO ₂ (8)		
33-36-7	33 Furnace 7	SO ₂ (8)		
33-36-8	33 Furnace 8	SO ₂ (8)		
33-36-9	33 Furnace 9	SO ₂ (8)		
Emission Cap		SO₂	223.90	374.52

Flare System

56-61-4	Unit 10D/18 Flare (Flare 4)	SO ₂		
56-61-8	Unit 10, 12 Low Pressure Flare 8	SO ₂		
56-61-9	Unit 10, 12 High Pressure Flare 9	SO ₂		
56-61-10	Unit 21, 22 Flare (Flare 10)	SO ₂		
56-61-12	Unit 22 Flare (Flare 12)	SO ₂		
56-61-14	Unit 24 Flare (Flare 14)	SO ₂		
56-61-20	Unit 24 Process Flare (Flare 20)	SO ₂		
56-61-22	Unit 33 Flare (Flare 22)	SO ₂ (8)		
Emission Cap		SO₂	18.33	24.72

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AIR CONTAMINANTS DATA

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

EMISSION SOURCES - EMISSION CAPS AND INDIVIDUAL EMISSION LIMITATIONS

AIR CONTAMINANTS DATA

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

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
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

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AIR CONTAMINANTS DATA

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

EMISSION SOURCES - EMISSION CAPS AND INDIVIDUAL EMISSION LIMITATIONS

AIR CONTAMINANTS DATA

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

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Cap or Individual Emission Limit lb/hr	*
<u>TPY</u>				
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 Flare (Flare 4)	VOC		
56-61-8	Unit 10, 12 Low Pressure Flare 8	VOC		
56-61-9	Unit 10, 12 High Pressure Flare 9	VOC		
56-61-10	Unit 21, 22 Flare (Flare 10)	VOC		
56-61-12	Unit 22 Flare (Flare 12)	VOC		
56-61-14	Unit 24 Flare (Flare 14)	VOC		
56-61-20	Unit 24 Process Flare (Flare 20)	VOC		
56-61-22	Unit 33 Flare (Flare 22)	VOC		
Emission Cap		VOC	120.36	497.29

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AIR CONTAMINANTS DATA

Emission Point No. (1) TPY	Source Name (2)	Air Contaminant Name (3)	Emission Cap or Individual Emission Limit lb/hr	*
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Flare System - Start-up, Shutdown, and Maintenance

56-61-4	Unit 10D/18 Flare (Flare 4)	VOC		
56-61-8	Unit 10, 12 Low Pressure Flare 8	VOC		
56-61-10	Unit 21, 22 Flare (Flare 10)	VOC		
56-61-20	Unit 24 Process Flare (Flare 20)	VOC		
56-61-22	Unit 33 Flare (Flare 22)	VOC		
Emission Cap		VOC	235.12	2.14

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	1.46	6.37

EMISSION SOURCES - EMISSION CAPS AND INDIVIDUAL EMISSION LIMITATIONS

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
22-7-1	Boiler No. 10 (Boiler and Turbine Combined) (6)	CO	38.48	168.53
		NO _x (prior to control)	72.53	317.68
		NO _x (after control)	44.23	193.72
		PM ₁₀	3.92	17.24
		SO ₂	16.69	73.10
		VOC	3.65	15.97
22-95-27	Propylene Compressor Turbine (operating alone) (6) (7)	CO	4.30	1.55
		NO _x (prior to control)	26.88	9.68
		NO _x (after control)	19.33	6.96
		PM ₁₀	0.84	0.30
		SO ₂	0.44	0.16
		VOC	1.41	0.51

- (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 particulate matter greater than 10 microns is emitted.
SO₂ - sulfur dioxide
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

EMISSION SOURCES - EMISSION CAPS AND INDIVIDUAL EMISSION LIMITATIONS

- (5) Benzene from other facilities is included in the VOC cap and does not contribute to the benzene emission cap.
- (6) Boiler No. 10 shall be retrofitted with NO_x controls that meet the requirements of permit Special Condition No. 7 no later than March 31, 2007. The "after control" emission rates apply after the NO_x controls are installed, but not later than March 31, 2007.
- (7) 720 operating hours in a calendar year.
- (8) PSD-TX-751M1 pollutant

EMISSION SOURCES - EMISSION CAPS AND INDIVIDUAL EMISSION LIMITATIONS

- * 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 _____