

## EMISSION SOURCES - EMISSION CAPS AND INDIVIDUAL EMISSION LIMITATIONS

Flexible Permit No. 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

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

### CO SOURCES

12-36-1	12 Furnace 1	CO
12-36-1a	12 Furnace 1a	CO
12-36-1an	12 Furnace 1an	CO
12-36-1b	12 Furnace 1b	CO
12-36-1c	12 Furnace 1c	CO
12-36-1d	12 Furnace 1d	CO
12-36-1e	12 Furnace 1e	CO
12-36-1f	12 Furnace 1f	CO
12-36-1g	12 Furnace 1g	CO
12-36-1h	12 Furnace 1h	CO
12-36-2	12 Furnace 2	CO
12-36-2a	12 Furnace 2a	CO
12-36-3	12 Furnace 3	CO
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
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

EMISSION SOURCES - EMISSION CAPS AND INDIVIDUAL  
EMISSION LIMITATIONS

## AIR CONTAMINANTS DATA

Cap or			Emission
Individual Emission Limit *	Source	Air Contaminant	<u>Emission</u>
Point No. (1) TPY	Name (2)	Name (3)	lb/hr
24-36-6	24 Furnace 6	CO	
24-36-8	24 Furnace 8	CO	
22-36-9	24 Furnace 9	CO	
33-36-1	33 Furnace 1	CO	
33-36-2	33 Furnace 2	CO	
33-36-3	33 Furnace 3	CO	
33-36-4	33 Furnace 4	CO	
33-36-5	33 Furnace 5	CO	
33-36-6	33 Furnace 6	CO	
33-36-7	33 Furnace 7	CO	
33-36-8	33 Furnace 8	CO	
U12 Decoke	U12 Decoke	CO	
U22 Decoke	U22 Decoke	CO	
U24 Decoke	U24 Decoke	CO	
U33 Decoke	U33 Decoke	CO	
56-61-5	12 Flare 5	CO	
56-61-6	12 Flare 6	CO	
56-61-10	22 Flare 10	CO	
56-61-12	22 Flare 12	CO	
56-61-14	24 Flare 14	CO	
56-61-20	24 Flare 20	CO	
56-61-22	33 Flare 22	CO	
Ethylene Area CO Emission Cap			550.00 2212.35

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EMISSION LIMITATIONS

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

NO<sub>x</sub> SOURCES

12-36-1	12 Furnace 1	NO <sub>x</sub>		
12-36-1a	12 Furnace 1a	NO <sub>x</sub>		
12-36-1an	12 Furnace 1an	NO <sub>x</sub>		
12-36-1b	12 Furnace 1b	NO <sub>x</sub>		
12-36-1c	12 Furnace 1c	NO <sub>x</sub>		
12-36-1d	12 Furnace 1d	NO <sub>x</sub>		
12-36-1e	12 Furnace 1e	NO <sub>x</sub>		
12-36-1f	12 Furnace 1f	NO <sub>x</sub>		
12-36-1g	12 Furnace 1g	NO <sub>x</sub>		
12-36-1h	12 Furnace 1h	NO <sub>x</sub>		
12-36-2	12 Furnace 2	NO <sub>x</sub>		
12-36-2a	12 Furnace 2a	NO <sub>x</sub>		
12-36-3	12 Furnace 3	NO <sub>x</sub>		
NO <sub>x</sub> Emission Cap For Unit 12 Cracking Furnaces			32.00	138.28
22-36-1	22 Furnace 1	NO <sub>x</sub>		
22-36-2	22 Furnace 2	NO <sub>x</sub>		
22-36-3	22 Furnace 3	NO <sub>x</sub>		
22-36-4	22 Furnace 4	NO <sub>x</sub>		
22-36-5	22 Furnace 5	NO <sub>x</sub>		
22-36-6	22 Furnace 6	NO <sub>x</sub>		
22-36-7	22 Furnace 7	NO <sub>x</sub>		
22-36-8	22 Furnace 8	NO <sub>x</sub>		

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EMISSION LIMITATIONS

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Cap or		Emission	
Individual Emission Limit *	Source	Air Contaminant	<u>Emission</u>
Point No. (1) TPY	Name (2)	Name (3)	lb/hr
24-36-1	24 Furnace 1	NO <sub>x</sub>	
24-36-2	24 Furnace 2	NO <sub>x</sub>	
24-36-3	24 Furnace 3	NO <sub>x</sub>	
24-36-4	24 Furnace 4	NO <sub>x</sub>	
24-36-5	24 Furnace 5	NO <sub>x</sub>	
24-36-6	24 Furnace 6	NO <sub>x</sub>	
24-36-8	24 Furnace 8	NO <sub>x</sub>	
22-36-9	24 Furnace 9	NO <sub>x</sub>	
33-36-1	33 Furnace 1	NO <sub>x</sub>	
33-36-2	33 Furnace 2	NO <sub>x</sub>	
33-36-3	33 Furnace 3	NO <sub>x</sub>	
33-36-4	33 Furnace 4	NO <sub>x</sub>	
33-36-5	33 Furnace 5	NO <sub>x</sub>	
33-36-6	33 Furnace 6	NO <sub>x</sub>	
33-36-7	33 Furnace 7	NO <sub>x</sub>	
33-36-8	33 Furnace 8	NO <sub>x</sub>	
U12 Decoke	U12 Decoke	NO <sub>x</sub>	
U22 Decoke	U22 Decoke	NO <sub>x</sub>	
U24 Decoke	U24 Decoke	NO <sub>x</sub>	
U33 Decoke	U33 Decoke	NO <sub>x</sub>	
56-61-5	12 Flare 5	NO <sub>x</sub>	
56-61-6	12 Flare 6	NO <sub>x</sub>	
56-61-10	22 Flare 10	NO <sub>x</sub>	
56-61-12	22 Flare 12	NO <sub>x</sub>	

EMISSION SOURCES - EMISSION CAPS AND INDIVIDUAL  
EMISSION LIMITATIONS

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Cap or		Emission	
Individual Emission Limit *	Source	Air Contaminant	<u>Emission</u>
Point No. (1) TPY	Name (2)	Name (3)	lb/hr
56-61-14	24 Flare 14	NO <sub>x</sub>	
56-61-20	24 Flare 20	NO <sub>x</sub>	
56-61-22	33 Flare 22	NO <sub>x</sub>	
NO <sub>x</sub> Emission Cap (Including Unit 12)			495.00      2159.91

EMISSION SOURCES - EMISSION CAPS AND INDIVIDUAL  
EMISSION LIMITATIONS

## AIR CONTAMINANTS DATA

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

PM SOURCES

12-36-1	12 Furnace 1	PM
12-36-1a	12 Furnace 1a	PM
12-36-1an	12 Furnace 1an	PM
12-36-1b	12 Furnace 1b	PM
12-36-1c	12 Furnace 1c	PM
12-36-1d	12 Furnace 1d	PM
12-36-1e	12 Furnace 1e	PM
12-36-1f	12 Furnace 1f	PM
12-36-1g	12 Furnace 1g	PM
12-36-1h	12 Furnace 1h	PM
12-36-2	12 Furnace 2	PM
12-36-2a	12 Furnace 2a	PM
12-36-3	12 Furnace 3	PM
22-36-1	22 Furnace 1	PM
22-36-2	22 Furnace 2	PM
22-36-3	22 Furnace 3	PM
22-36-4	22 Furnace 4	PM
22-36-5	22 Furnace 5	PM
22-36-6	22 Furnace 6	PM
22-36-7	22 Furnace 7	PM
22-36-8	22 Furnace 8	PM
24-36-1	24 Furnace 1	PM
24-36-2	24 Furnace 2	PM

EMISSION SOURCES - EMISSION CAPS AND INDIVIDUAL  
EMISSION LIMITATIONS

## AIR CONTAMINANTS DATA

Cap or			Emission
Individual Emission Limit *	Source	Air Contaminant	<u>Emission</u>
Point No. (1) TPY	Name (2)	Name (3)	lb/hr
24-36-3	24 Furnace 3	PM	
24-36-4	24 Furnace 4	PM	
24-36-5	24 Furnace 5	PM	
24-36-6	24 Furnace 6	PM	
24-36-8	24 Furnace 8	PM	
22-36-9	24 Furnace 9	PM	
33-36-1	33 Furnace 1	PM	
33-36-2	33 Furnace 2	PM	
33-36-3	33 Furnace 3	PM	
33-36-4	33 Furnace 4	PM	
33-36-5	33 Furnace 5	PM	
33-36-6	33 Furnace 6	PM	
33-36-7	33 Furnace 7	PM	
33-36-8	33 Furnace 8	PM	
U12 Decoke	U12 Decoke	PM	
U22 Decoke	U22 Decoke	PM	
U24 Decoke	U24 Decoke	PM	
U33 Decoke	U33 Decoke	PM	
Ethylene Area PM Emission Cap			80.00 343.24

VOC SOURCES

12-36-1	12 Furnace 1	VOC
12-36-1a	12 Furnace 1a	VOC

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EMISSION LIMITATIONS

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Cap or			Emission
Individual Emission Limit *	Source	Air Contaminant	<u>Emission</u>
Point No. (1) TPY	Name (2)	Name (3)	lb/hr
12-36-1an	12 Furnace 1an	VOC	
12-36-1b	12 Furnace 1b	VOC	
12-36-1c	12 Furnace 1c	VOC	
12-36-1d	12 Furnace 1d	VOC	
12-36-1e	12 Furnace 1e	VOC	
12-36-1f	12 Furnace 1f	VOC	
12-36-1g	12 Furnace 1g	VOC	
12-36-1h	12 Furnace 1h	VOC	
12-36-2	12 Furnace 2	VOC	
12-36-2a	12 Furnace 2a	VOC	
12-36-3	12 Furnace 3	VOC	
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	
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	



EMISSION SOURCES - EMISSION CAPS AND INDIVIDUAL  
EMISSION LIMITATIONS

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Cap or			Emission
Individual Emission Limit *	Source	Air Contaminant	<u>Emission</u>
Point No. (1) TPY	Name (2)	Name (3)	lb/hr
24-36-8	24 Furnace 8	VOC	
22-36-9	24 Furnace 9	VOC	
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	
56-61-5	12 Flare 5	VOC	
56-61-6	12 Flare 6	VOC	
56-61-10	22 Flare 10	VOC	
56-61-12	22 Flare 12	VOC	
56-61-14	24 Flare 14	VOC	
56-61-20	24 Flare 20	VOC	
56-61-22	33 Flare 22	VOC	
12-0-0	12 Fugitives (4)	VOC	
22-0-0	22 Fugitives (4)	VOC	
24-0-0	24 Fugitives (4)	VOC	
33-0-0	33 Fugitives (4)	VOC	
VOC Cap recalculated for all Fugitive Areas			21.60 86.00

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EMISSION LIMITATIONS

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Cap or			Emission
Individual Emission Limit *	Source	Air Contaminant	<u>Emission</u>
Point No. (1) TPY	Name (2)	Name (3)	lb/hr
33-95-310	33 O/W Separator	VOC	
54-12-5	12 Cooling Tower	VOC	
54-22-12	22 Cooling Tower	VOC	
54-24-13	24 Cooling Tower	VOC	
54-33-17	33 Cooling Tower	VOC	
TK-84	Tank 84 DAC	VOC	
TK-401	Tank 401 DAC	VOC	
TK-245	Tank 245 DAC	VOC	
TK-246	Tank 246 DAC	VOC	
Ethylene Area VOC Emission Cap (Including Fugitives)			56.00      241.14

Benzene Sources (5)

12-0-0	12 Fugitives (4)	Benzene	
22-0-0	22 Fugitives (4)	Benzene	
24-0-0	24 Fugitives (4)	Benzene	
33-0-0	33 Fugitives (4)	Benzene	
33-95-310	33 O/W Separator	Benzene	
54-12-5	12 Cooling Tower	Benzene	
54-22-12	22 Cooling Tower	Benzene	
54-24-13	24 Cooling Tower	Benzene	
54-33-17	33 Cooling Tower	Benzene	0.04

## EMISSION SOURCES - EMISSION CAPS AND INDIVIDUAL EMISSION LIMITATIONS

0.17

TK-84	Tank 84 DAC	Benzene	
TK-401	Tank 401 DAC	Benzene	
TK-245	Tank 245 DAC	Benzene	0.32
0.70			
TK-246	Tank 246 DAC	Benzene	0.32
0.70			

Ethylene Area Benzene Emission Cap 1.04  
4.55  
(Including individual limits)

- (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) PM - particulate matter  
VOC - volatile organic compounds as defined in General Rule 101.1  
NO<sub>x</sub> - total oxides of nitrogen  
CO - carbon monoxide
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) Included in VOC Cap.

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

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Hrs/day\_\_\_Days/week\_\_\_Weeks/year\_\_\_or Hrs/year 8,760

DATED\_\_\_\_\_