

# EMISSION POINTS, EMISSION CAPS, AND INDIVIDUAL EMISSION LIMITATIONS

Flexible Permit Number 7278

This table lists the maximum allowable emission caps or individual emission rates related to the sources of air contaminants on the applicant's property that are covered by this permit. The emission rates shown are derived from information submitted as part of the application for this permit and are the maximum rates allowed for these emission points. Any proposed increase in emission rates may require that the permit be amended.

## AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates*</u>	
			lb/hr	
	TPY**			
B-C-8A	F-401A Furnace	NO <sub>x</sub>	4.60	17.64
		CO	2.92	11.17
		SO <sub>2</sub>	0.02	0.08
		PM <sub>10</sub>	0.26	1.01
		VOC	0.19	0.73
B-C-8B	F-401B Furnace	NO <sub>x</sub>	4.60	17.64
		CO	2.92	11.17
		SO <sub>2</sub>	0.02	0.08
		PM <sub>10</sub>	0.26	1.01
		VOC	0.19	0.73
B-C-8C	F-409A Furnace	NO <sub>x</sub>	3.76	16.46
		CO	2.58	11.30
		SO <sub>2</sub>	0.02	0.08
		PM <sub>10</sub>	0.23	1.02
		VOC	0.17	0.74
B-C-8D	F-409B Furnace	NO <sub>x</sub>	4.25	16.28
		CO	2.92	11.17
		SO <sub>2</sub>	0.02	0.08
		PM <sub>10</sub>	0.26	1.01
		VOC	0.19	0.73
B-C-8E	F-402 Furnace	NO <sub>x</sub>	1.08	0.97
		CO	0.74	0.66
		SO <sub>2</sub>	0.01	0.01
		PM <sub>10</sub>	0.07	0.06
		VOC	0.05	0.04

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			lb/hr	TPY**
B-C-9A	F-901A Furnace	NO <sub>x</sub>	7.21	31.56
		CO	4.56	19.99
		SO <sub>2</sub>	0.03	0.14
		PM <sub>10</sub>	0.41	1.81
		VOC	0.30	1.31
B-C-9B	F-901B Furnace	NO <sub>x</sub>	7.21	31.56
		CO	4.56	19.99
		SO <sub>2</sub>	0.03	0.14
		PM <sub>10</sub>	0.41	1.81
		VOC	0.30	1.31
A-C-0A,B,C	F-4501 Furnace	NO <sub>x</sub>	15.42	67.56
		CO	0.03	0.15
		SO <sub>2</sub>	0.09	0.33
		PM <sub>10</sub>	0.96	4.23
		VOC	0.69	3.06
A-C-1	F-4502 Furnace	NO <sub>x</sub>	10.31	45.15
		CO	0.33	1.43
		SO <sub>2</sub>	0.07	0.30
		PM <sub>10</sub>	0.86	3.75
		VOC	0.62	2.72
A-C-2	F-4504 Furnace	NO <sub>x</sub>	1.09	4.77
		CO	2.37	10.40
		SO <sub>2</sub>	0.04	0.18
		PM <sub>10</sub>	0.52	2.28
		VOC	0.38	1.65
B-C-7	F-902 Furnace	NO <sub>x</sub>	0.42	1.37
		CO	0.29	0.94
		SO <sub>2</sub>	0.01	0.01

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates*	
			lb/hr	TPY**
F-C-0	F-202 Furnace	PM <sub>10</sub>	0.03	0.08
		VOC	0.02	0.06
		NO <sub>x</sub>	1.86	8.14
		CO	1.28	5.59
		SO <sub>2</sub>	0.01	0.04
		PM <sub>10</sub>	0.12	0.51
		VOC	0.08	0.37
A-A-0	OA-5 Cylinder Vent	Catalyst	0.73	0.01
F-E-6	C-202 Hotwell	CO	0.12	0.42
		VOC	0.03 0.09	
F-I-1A	T-201A Storage Tank	VOC	0.48	<0.01
F-I-1B	T-201B Storage Tank	VOC	0.48	<0.01
F-G-3	T-220 Storage Tank	VOC	0.48	<0.01
F-GZ-0	Area F Fugitive Emissions	VOC	0.93	4.08
B-D-0 (4)	HB2 Flare	VOC	1.19	<0.01
C-D-2 (5)	CHA Flare	VOC	0.10	<0.01

## EMISSION POINTS INCLUDED IN THE EMISSION CAPS:

### Cooling Towers:

A-B-1A	Fluor Cooling Tower Stack A	VOC
A-B-1B	Fluor Cooling Tower Stack B	VOC
A-B-2	Ecodyne Cooling Tower	VOC
A-B-3	TPI Cooling Tower	VOC

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			lb/hr	TPY**

**Miscellaneous Equipment:**

A-A-0	OA-5 Cylinder Vent	CO
A-D-0	ED Ground Burner	NO <sub>x</sub>
		CO
		SO <sub>2</sub>
		PM <sub>10</sub>
		VOC
A-E-1	C-4430 Hotwell	VOC
A-E-2	C-4440 Hotwell	VOC
A-E-3	C-4448 Hotwell	VOC
A-E-4	Lube Oil Arrestor	VOC
A-E-5	C-4455 Isomerizer	CO
		VOC
B-E-7	C-504 Hotwell	VOC
A-GZ-4	LAO Alkyl Filter Change-outs	VOC
A-GZ-6	Peaking Filter Change-outs	VOC
B-GZ-4	Area B Compressor Maintenance	VOC
B-I-7	D-903 Shutdowns	VOC
B-E-13	D-402 Shutdowns	VOC
B-E-14	D-403 Shutdowns	VOC
B-E-15	D-440 Shutdowns	VOC

**Wastewater:**

K-B-0	Process Canal	VOC
K-B-2	Storm Water Holdup	VOC
K-B-3	Aerated Lagoon	VOC

**Flares:**

C-D-2	CHA Flare	VOC
A-D-1	Dry Flare	NO <sub>x</sub>
		CO
		SO <sub>2</sub>

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates*	
			lb/hr	TPY**
		VOC		
B-D-0	HB-2 Flare	NO <sub>x</sub>		
		CO		
		SO <sub>2</sub>		
		VOC		
L-D-0T	Portable Flare for T-4613D Degas		NO <sub>x</sub>	
		CO		
		VOC		
L-D-1T	Portable Flare for T-4621C Degas		NO <sub>x</sub>	
		CO		
		VOC		
<b>Fixed Roof Storage Tanks:</b>				
B-G-0A	D-505A	VOC		
B-G-0B	D-505B	VOC		
B-G-0C	D-505C	VOC		
B-G-2	D-510	VOC		
B-G-3A	D-506	VOC		
B-G-3B	D-507	VOC		
B-G-5	D-316	VOC		
B-G-6	D-903	VOC		
B-G-7	D-457	VOC		
B-H-0	D-464	VOC		
E-G-0	D-824	VOC		
E-G-1A	D-801A	VOC		
E-G-1B	D-801B	VOC		
E-G-2	D-804	VOC		
E-G-3	D-808	VOC		
E-G-4	D-809	VOC		
E-G-5A	D-802A	VOC		
E-G-5B	D-802B	VOC		
E-G-5C	D-802C	VOC		

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates*	
			lb/hr	TPY**
E-G-5D	D-802D	VOC		
E-G-6A	D-803A	VOC		
E-G-6B	D-803B	VOC		
E-G-7	D-803C	VOC		
E-G-8	D-822	VOC		
E-G-9	D-810	VOC		
E-H-0	D-818	VOC		
E-H-1	D-607	VOC		
E-H-2	D-812	VOC		
E-H-4A	D-805A	VOC		
E-H-4B	D-805B	VOC		
E-H-4C	D-805C	VOC		
G-G-0	D-817A	VOC		
G-G-1	D-817B	VOC		
G-G-2	D-817C	VOC		
G-I-0	D-819	VOC		
G-I-1	D-820A	VOC		
G-I-2	D-820B	VOC		
G-I-3	D-821	VOC		
L-G-0	D-811A	VOC		
L-G-1	D-811B	VOC		
M-H-2	T-4621B	VOC		
Q-G-0	T-1815	VOC		
Q-G-1	T-1816	VOC		
Q-G-3	T-4600	VOC		
U-G-0	T-4652A	VOC		
U-G-1	T-4652B	VOC		
U-G-3	T-4653B	VOC		
U-H-0	T-4680A	VOC		
U-H-1	T-4680B	VOC		
U-H-2	T-4655A	VOC		
U-H-3	T-4655B	VOC		
U-H-4	T-4686	VOC		
U-H-5	T-4653C	VOC		

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates*	
			lb/hr	TPY**
U-H-6	T-4653D	VOC		
W-G-3	T-4605B	VOC		
W-G-4	T-4605A	VOC		
W-G-5	T-4610	VOC		
W-G-8	T-4616	VOC		
W-G-9	T-4612A	VOC		
W-H-0	T-4612B	VOC		
W-H-1	T-4651	VOC		
W-H-2	T-4650B	VOC		
W-H-3	T-4650A	VOC		
W-H-4	T-4607	VOC		
W-H-5	T-4644B	VOC		
W-H-6	T-4644A	VOC		
W-H-7	T-4642B	VOC		
W-H-8	T-4642A	VOC		
W-H-9	T-4625A	VOC		
W-I-0	T-4625B	VOC		
W-I-1	T-4626	VOC		
W-I-4A	T-4661	VOC		
W-I-4B	T-4660B	VOC		
W-I-4C	T-4660A	VOC		
W-I-5	T-4611	VOC		

**Internal Floating Roof Storage Tanks:**

B-G-1	D-456	VOC
B-G-8	D-710	VOC
B-G-9	D-463	VOC
B-J-2	D-654	VOC
L-G-3A	T-4613A	VOC
L-G-3B	T-4613B	VOC
L-G-3C	T-4613C	VOC
L-G-4	T-4613D	VOC
M-H-1	T-4621A	VOC
M-H-3	T-4621C	VOC

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates*	
			lb/hr	TPY**
T-H-0	T-4608	VOC		
T-H-1	T-4618	VOC		
U-G-2	T-4663C	VOC		
U-G-4	T-4662A	VOC		
U-G-5	T-4662B	VOC		
U-G-6	T-4663A	VOC		
U-G-7	T-4663B	VOC		
U-G-8	T-4664	VOC		
W-G-0A	T-4603A	VOC		
W-G-0B	T-4603B	VOC		
W-G-1	T-4341	VOC		
W-T-1	T-4615A	VOC		
W-T-2	T-4603C	VOC		

**Fugitive Emissions (6):**

A-GZ-1	Area A Fugitive Emissions	VOC
B-GZ-0	Area B Fugitive Emissions	VOC
E-GZ-0	Area E Fugitive Emissions	VOC
G-GZ-0	Area G Fugitive Emissions	VOC
K-GZ-1	Area K Fugitive Emissions	VOC
L-GZ-0	Area L Fugitive Emissions	VOC
M-GZ-0	Area M Fugitive Emissions	VOC
Q-GZ-0	Area Q Fugitive Emissions	VOC
T-GZ-0	Area T Fugitive Emissions	VOC
U-GZ-0	Area U Fugitive Emissions	VOC
W-GZ-0	Area W Fugitive Emissions	VOC

**Loading/Unloading Emissions:**

E-A-0A	Load Spot No. 5	VOC
E-A-1A	Load Spot No. 1	VOC
E-A-1B	Load Spot No. 2	VOC
E-A-1C	Load Spot No. 3	VOC
E-A-1D	Load Spot No. 6	VOC
G-A-1	Load Spot No. 8	VOC



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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates*	
			lb/hr	TPY**
G-A-2	Load Spot No. 9	VOC		
G-A-3	Load Spot No. 10	VOC		
G-A-4	Load Spot No. 13	VOC		
T-A-2	Load Spot No. 11	VOC		
T-A-3	Load Spot No. 14	VOC		
U-A-0A	Load Spot No. 18	VOC		
U-A-0B	Load Spot No. 19	VOC		
U-A-0C	Load Spot No. 20	VOC		
U-A-0D	Load Spot No. 21	VOC		
U-A-0E	Load Spot No. 22	VOC		
W-A-0A	Load Spot No. 4	VOC		
W-A-0B	Load Spot No. 7	VOC		
F-A-3	NaOH Load Spot	VOC		
<b>Flexible Emission Cap</b>			NO <sub>x</sub>	0.10
	0.80			
<b>Flexible Emission Cap</b>			CO	13.17
	54.94			
<b>Flexible Emission Cap</b>			SO <sub>2</sub>	<0.01
	0.01			
<b>Flexible Emission Cap</b>			PM <sub>10</sub>	0.93
	0.47			
<b>Flexible Emission Cap</b>			VOC (7)	758.03
	246.19			
<b>Flexible Emission Cap</b>			VOC (8)	753.39
	237.79			

(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) NO<sub>x</sub> - total oxides of nitrogen

CO - carbon monoxide

SO<sub>2</sub> - sulfur dioxide

PM<sub>10</sub> - particulate matter (PM) equal to or less than 10 microns in diameter. Where PM is not

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listed, it shall be assumed that no particulate matter greater than 10 microns is emitted.

VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1

(4) Includes only FIN F-H-7 (D-219 Pressure Tank)

(5) Includes only FINs F-H-6 and F-G-1A (V-209 Pressure Tank and V-332 Hexene Storage Tank)

(6) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

(7) Emission Cap prior to January 1, 2003.

(8) Emission Cap beginning January 1, 2003.

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

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

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

Dated November 23, 2005