EMISSION POINTS AND INDIVIDUAL EMISSION LIMITATIONS

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.

Emission Rates*	Source	Air C	ontaminant	<u>Emission</u>
Point No. (1) TPY**	Name (2)	Name (3)	lb/hr	
A-D-1	HA-3 Flare (Normal Operations)	VOC NO _x CO	24.46 0.39 2.63	23.95 0.79 5.56
		SO_2	0.01	0.01
A-D-1	HA-3 Flare (Maintenance, Start-up, and Shutdown Activities)	VOC NO _x CO SO ₂	13.50 1.09 4.12 0.01	0.26 0.01 0.09 0.01
BLR-1	Boiler 1	VOC NO_x CO SO_2 PM	0.99 2.00 3.38 0.11 1.37	4.34 8.76 14.81 0.47 6.00
BLR-2	Boiler 2	VOC NO _x CO SO ₂ PM	0.99 2.00 3.38 0.11 1.37	4.34 8.76 14.81 0.47 6.00
BLR-3	Boiler 3 (Back-up only)	VOC NO _x CO SO ₂ PM	0.99 2.00 3.38 0.11 1.37	4.34 8.76 14.81 0.47 6.00
CT-1	Water Cooling Tower	VOC	0.96	4.20

L-G-0 1T-201 Heavy Olefins Storage VOC 0.48 0.07

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Emission Rates*	Source	Air Contaminant		Emission
Point No. (1) TPY**	Name (2)	Name (3)	lb/hr	
L-G-1	1T-202 Heavy Olefins Storage	VOC	0.48	0.07
M-H-1	1T-122 Olefins Storage	VOC	0.47	0.25
M-H-3	1T-121 Olefins Storage	VOC	3.54	2.12
Q-G-0	1T-361 Heavy Olefins Storage	VOC	4.49	1.70
Q-G-1	1T-341 Heavy Olefins Storage	VOC	0.71	0.23
Q-G-3	1T-321 Olefin Blend Tank	VOC	0.82	0.05
U-G-0	1T-503Tank Vent	VOC	7.23	0.11
U-G-1	1T-504Tank Vent	VOC	7.23	0.08
U-G-2	1T-523 Tank Vent	VOC	0.22	0.15
U-G-3	1T-524 Tank Vent	VOC	0.01	0.02
U-H-0	1T-512 Tank Vent C14	VOC	0.10	0.10
U-H-1	1T-513 Tank Vent C14	VOC	0.10	0.10
U-H-4	1T-529 Tank Vent	VOC	4.87	0.03
U-H-5	1T-525 Tank Vent C10	VOC	5.24	0.05

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U-H-6	1T-526 Tank Vent C10	VOC	5.24	0.07
W-G-7	1T-421 Heavy Olefins Storage	VOC	0.09	0.01
W-G-8	1T-422 Heavy Olefins Storage	VOC	0.69	0.01
W-G-9	1T-423 Heavy Olefins Storage	VOC	2.31	0.07

EMISSION POINTS AND INDIVIDUAL

EMISSION LIMITATIONS

Emission Rates*	Source	Air Contaminant		<u>Emission</u>
Point No. (1)	Name (2)	Name (3)	lb/hr	
TPY**				
W-H-0	1T-424 Heavy Olefins Storage	VOC	0.17	0.01
W-H-1	1T-425 Heavy Olefins Storage	VOC	0.60	0.01
W-H-2	1T-409 Heavy Olefins Storage	VOC	0.80	0.02
W-H-3	1T-408 Heavy Olefins Storage	VOC	0.80	0.02
W-H-4	1T-407 Heavy Olefins Storage	VOC	0.07	0.01
W-H-5	1T-404 Heavy Olefins Storage	VOC	0.09	0.01
W-H-6	1T-403 Heavy Olefins Storage	VOC	0.69	0.01
W-H-7	1T-402 Heavy Olefins Storage	VOC	0.09	0.01
W-H-8	1T-401 Heavy Olefins Storage	VOC	0.17	0.01
W-H-9	1T-431 Heavy Olefins Storage	VOC	0.55	0.01
W-I-0	1T-432 Heavy Olefins Storage	VOC	0.55	0.01
W-I-1	1T-451 Heavy Olefins Storage	VOC	0.60	0.01
W-I-4A	1T-452 Heavy Olefins Storage	VOC	0.07	0.01

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W-I-4B	1T-453 Heavy Olefins Storage	VOC	0.21	0.01
W-I-4C	1T-441 Heavy Olefins Storage	VOC	0.01	0.01
W-I-5	1T-433 Heavy Olefins Storage	VOC	0.01	0.01
L-G-3A	1T-241 Gasoline Blendstock Storag	eVOC	0.79	0.22
L-G-3B	1T-242 Gasoline Blendstock Storag	eVOC	0.79	0.22

EMISSION POINTS AND INDIVIDUAL EMISSION LIMITATIONS

Emission Rates*	Source		Air Contamir	nant	Emission
Point No. (1) TPY**	Name (2)	Name (3))	lb/hr	
L-G-3C	1T-243 Gasoline Blendstock Storag	eVOC		0.79	0.22
L-G-4	1T-251 Gasoline Blendstock Storag	eVOC		0.99	2.24
U-G-4	1T-501 Tank Vent	VOC		0.89	0.22
U-G-5	1T-502 Tank Vent	VOC		0.89	0.22
U-G-6	1T-521 Tank Vent	VOC		0.72	0.02
U-G-7	1T-522 Tank Vent	VOC		0.72	0.02
U-G-8	1T-511 Tank Vent	VOC		0.62	0.14
L-D-0T	Portable Flare for T-4613D Degas	VOC NO _x CO		0.01 0.03 0.06	0.01 0.01 0.01
L-D-1T	Portable Flare for T-4621C Degas	VOC NO _x CO		0.15 0.03 0.06	0.01 0.01 0.01
VCSTK	Marine Vapor Combustor System (MVCS) Loading	VOC NO _x CO		2.83 0.64 0.79	0.24 0.18 0.21

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		SO_2 PM_{10}	0.01 0.01	0.01 0.01
K-A-1C	East Dock - Fuel Oil/Olefins	VOC	0.01	0.01
HPIB FUG	HPIB Fugitive Emissions (4)	VOC	1.68	7.38
TT/RC FUG	Tank Truck/Rail Rack Fugitives (4)	VOC	1.05	1.05
MARINE FUG	Marine Fugitive Emissions (4) EMISSION POINTS AND INDIVIDUAL E	VOC MISSION L	0.11 IMITATIONS	0.37

Emission Rates*	Source	Air C	contam inant	<u>Emission</u>
Point No. (1)	Name (2)	Name (3)	lb/hr	
TPY**				
LOAD1 FUG	Gasoline Blendstock Marine Loading Fugitives (4)	VOC	29.75	2.55
E TNK FUG	E Tank Farm Fugitive Emissions (4)	VOC	0.23	0.93
S TNK FUG	S Tank Farm Fugitive Emissions (4)	VOC	0.20	0.65
TNK GAS FUG	Gasoline Blendstock Piping Fugitive Emissions (4)	VOC	0.04	0.18
U-G-6 MSS	S3-02-01 Tank MSS Emissions	VOC (5)	2.26	0.01
U-G-7 MSS	S3-03-01 Tank MSS Emissions	VOC (5)	2.26	0.01
U-G-2 MSS	S3-05-01 Tank MSS Emissions	VOC (6) VOC (7)	3.54 1.15	0.01 0.01
		VOC (1)	1.15	0.01
TNK MSS FUG	1T-241, 1T-242, 1T-243, and 1T-251 MSS Fugitive Emissions	VOC (6)	0.51	0.04
PUMP MSS	Uncontrolled Pump Degassing Emissions	VOC (6)	0.01	0.01
MISC-MSS	Uncontrolled MSS Emissions from miscellaneous degassing.	VOC (8)	14.22	0.01

- 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_x total oxides of nitrogen
 - CO carbon monoxide
 - SO₂ sulfur dioxide
 - PM₁₀ particulate matter (PM) 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.
 - VOC volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1 EMISSION POINTS AND INDIVIDUAL EMISSION LIMITATIONS
- (4) Emission rate is an estimate and compliance is demonstrated by meeting the requirements of the applicable special conditions and permit application representations.
- (5) Storing materials have true vapor pressures less than 0.5 psia. All degassing and refilling emissions are uncontrolled.
- (6) Uncontrolled degassing emissions after VOC concentration has been detected as equal or below 10,000 ppmv.
- (7) Tank roof landing refill emissions.
- (8) Total of all uncontrolled degassing emissions from miscellaneous MSS activities for filters, process reactors, and process columns.
- * Emission rates are based on and the facilities are limited by the following maximum operating schedule:
 - 8,760 Hrs/year
- ** Compliance with annual emission limits is based on a rolling 12-month period.

Dated August 6, 2009