Permit Numbers 5631 and N054

This table lists the maximum allowable emission rates and all sources of air contaminants on the applicant's property covered by this permit. The emission rates shown are those derived from information submitted as part of the application for permit and are the maximum rates allowed for these facilities, sources, and related activities. Any proposed increase in emission rates may 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 Rates	
(±)			lbs/hour	TPY (4)
27-14	IFR Tank 27-14 (7)	VOC	13.49	3.14
		BZ	3.66	0.90
27-15	IFR Tank 27-15 (7)	VOC	13.49	3.14
		BZ	3.66	0.90
80-4	IFR Tank 80-4 (7)	VOC	8.16	6.12
		BZ	2.43	1.71
80-7	IFR Tank 80-7 (7)	VOC	9.02	5.87
		BZ	2.63	1.70
80-10	IFR Tank 80-10 (7)	VOC	8.31	6.20
		BZ	2.47	1.73
80-12	IFR Tank 80-12 (7)	VOC	8.24	4.07
		BZ	2.34	1.29
80-43	IFR Tank 80-43 (7)	VOC	8.24	4.02
		BZ	2.33	1.28
80-44	IFR Tank 80-44 (7)	VOC	8.24	4.02
		BZ	2.33	1.28
80-45	IFR Tank 80-45 (7)	VOC	8.24	4.02
		BZ	2.33	1.28
80-46	IFR Tank 80-46 (7)	VOC	8.24	4.02
		BZ	2.33	1.28

100-47	IFR Tank 100-47 (7)	VOC	7.58	5.76
		BZ	2.25	1.70
100-48	IFR Tank 100-48 (7)	VOC	7.58	5.76
		BZ	2.25	1.70
100-49	IFR Tank 100-49 (7)	VOC	7.58	5.76
		BZ	2.25	1.70
100-54	IFR Tank 100-54 (7)	VOC	7.58	5.87
		BZ	2.26	1.73
100-55	IFR Tank 100-55 (7)	VOC	7.58	5.91
		BZ	2.26	1.74
150-9	IFR Tank 150-9 (7)	VOC	6.49	10.58
		BZ	2.22	2.82
150-40	IFR Tank 150-40 (7)	VOC	6.30	6.27
		BZ	1.95	1.94
150-41	IFR Tank 150-41 (7)	VOC	6.30	6.27
		BZ	1.95	1.94
150-42	IFR Tank 150-42 (7)	VOC	6.30	6.27
		BZ	1.95	1.94
200-8	IFR Tank 200-8 (7)	VOC	5.70	12.65
		BZ	2.13	3.35
200-11	IFR Tank 200-11 (7)	VOC	5.69	12.60
		BZ	2.12	3.33
200-51	IFR Tank 200-51 (7)	VOC	5.52	7.19
		BZ	1.79	2.22

200-53	IFR Tank 200-53 (7)	VOC	5.52	7.19
		BZ	1.79	2.22
250-50	IFR Tank 250-50 (7)	VOC	5.23	10.13
		BZ	1.86	2.94
250-52	IFR Tank 250-52 (7)	VOC	5.23	10.13
		BZ	1.86	2.94
260-5	IFR Tank 260-5 (7)	VOC	5.20	9.38
		BZ	1.81	2.82
260-6	IFR Tank 260-6 (7)	VOC	5.21	10.35
		BZ	1.87	3.02
300-1	IFR Tank 300-1 (7)	VOC	4.74	11.37
		BZ	1.80	3.26
300-2	IFR Tank 300-2 (7)	VOC	4.88	10.76
		BZ	1.80	3.17
300-3	IFR Tank 300-3 (7)	VOC	4.96	13.22
		BZ	1.96	3.66
300-4	IFR 300-4 Tank (7)	VOC	4.94	13.05
		BZ	1.94	3.63
300-21	IFR Tank 300-21 (7)	VOC	6.32	18.56
		BZ	2.25	4.73
300-22	IFR Tank 300-22 (7)	VOC	4.74	11.10
		BZ	1.79	3.20
LD-111	IFR Tank LD-111 (7)	VOC	3.59	2.01
		BZ	1.04	0.47
LD-112	IFR Tank LD-112 (7)	VOC	3.59	2.01

		BZ	1.04	0.47
LD-113	IFR Tank LD-113 (7)	VOC	3.59	2.01
		BZ	1.04	0.47
LD-114	IFR Tank LD-114 (7)	VOC	3.59	2.01
		BZ	1.04	0.47
TH-501	IFR Tank TH-501 (7)	VOC	10.34	2.75
		BZ	2.83	0.71
TH-502	IFR Tank TH-502 (7)	VOC	10.34	2.75
		BZ	2.83	0.71
30-10	FR Tank 30-10 (7)	VOC	24.38	1.59
		BZ	6.27	0.42
30-13	FR Tank 30-13 (7)	VOC	24.38	1.59
		BZ	6.27	0.42
80-1	FR Tank 80-1 (7)	VOC	24.38	4.25
		BZ	6.27	1.10
80-2	FR Tank 80-2 (7)	VOC	24.38	4.25
		BZ	6.27	1.10
80-3	FR Tank 803 (7)	VOC	24.38	4.25
		BZ	6.27	1.10
LD-115	FR Tank LD-115 (7)	VOC	4.93	0.09
		BZ	1.27	0.03
LD-116	FR Tank LD-116 (7)	VOC	4.93	0.09
		BZ	1.27	0.03
	Hourly and Annual Tank Compliance	VOC	397.64 (8)	193.53 (10
	Caps	BZ	34.53 (9)	8.64 (11)

	Hourly and Annual MSS Compliance	VOC	(12)	137.00 (14)
	Caps	BZ	59.82 (13)	6.91 (15)
FUG 100	100 Manifold Fugitives (5)	VOC	0.76	3.29
	rugilives (5)	BZ	0.17	0.71
FUG 300	300 Manifold Fugitives (5)	VOC	0.18	0.77
	rugilives (3)	BZ	0.17	0.71
FUG 500	500 Manifold Fugitives (5)	VOC	0.25	1.08
	rugilives (3)	BZ	0.17	0.71
FUG C	C Manifold Fugitives	VOC	0.20	0.84
	(5)	BZ	0.17	0.71
FUG D	D Manifold Fugitives	VOC	0.77	3.37
	(5)	BZ	0.17	0.71
	Annual Fugitives Compliance Caps	VOC	-	9.35
	Compliance Caps	BZ	-	0.71
TR-1	Truck Loading Rack	VOC	0.97	0.69
	1	BZ	0.25	0.21
OWS-1	Oil/Water Separator1	VOC	2.50	3.80
MLF-1	Marine Loading Flare1	VOC	48.22	49.91
	Flate1	BZ	13.08	0.83
		NO _x	11.23	72.49
		СО	22.41	45.88
MLF-2	Marine Loading Flare2	VOC	55.09	49.91
	i idiez	BZ	13.08	0.83
		NO _x	21.00	72.49

		СО	41.91	45.88
MLF-1, MLF-2	Annual Flares Compliance Caps	VOC	-	49.91
	Compliance Caps	BZ	-	0.83
		NO _x	-	72.49
		СО	-	45.88
PORTFLARE	Portables Flares	VOC	86.98	(9)
		BZ	29.30	(13)
		NO _x	11.60	4.99
		СО	23.16	9.96
		Boilers		
S-2	Boiler S-2	VOC	0.11	0.11
		NOx	0.16	0.16
		СО	0.35	0.35
		PM	0.03	0.03
		SO2	0.06	0.06
	Loadin	g Operations and Fugitives		
SD-6, SD-7	Ship Dock 6, Ship Dock 7	VOC	0.08	0.03
SD-8	Ship Dock 8	VOC	4.55	4.85

TR-2	Truck Rack 2	VOC	0.08	0.37
FUG 100	100 Manifold Fugitives (5)	VOC	0.43	1.86
FUG 200	200 Manifold Fugitives (5)	VOC	0.80	3.41
	rugilives (3)	BZ	0.08	0.28
FUG 300	300 Manifold Fugitives (5)	VOC	0.04	0.13
	r ugilives (5)	BZ	0.01	0.01
FUG 400	400 Manifold Fugitives (5)	VOC	0.99	4.31
	r ugitives (5)	BZ	0.07	0.26
FUG 1600	1600 Manifold Fugitives (5)	VOC	0.04	0.18
	r ugitives (5)	BZ	0.04	0.18
KILGORE	Kilgore Equipment Fugitives (5)	VOC	0.02	0.06
		BZ	0.01	0.01
PR FUG	PR FUG Equipment Fugitive Area (5)	VOC	0.15	0.62
	r agilivo / liba (b)	BZ	0.02	0.06
FUG SD-1	Ship Dock 1 Fugitive Area (5)	VOC	0.11	0.47
	7 64 (6)	BZ	0.01	0.05
FUG SD-4/5	Ship Dock 4/5 Fugitive Area (5)	VOC	0.11	0.47
	r agiavo / ii oa (e)	BZ	0.01	0.05
FUG SD-6/7	Ship Dock 6/7 Fugitive Area (5)	VOC	0.11	0.44
		BZ	0.01	0.03
FUG SD-8	Ship Dock 8 Fugitive Area (5)	VOC	0.11	0.44
	7 34 (5)	BZ	0.01	0.04
GUG BD-B	Barge Dock B Fugitive	VOC	0.11	0.47
	Area (5)	BZ	0.01	0.05

FUG BD-D	Barge Dock B	VOC	0.11	0.47
FUG BD-D	Fugitive Area (5)			0.47
		BZ	0.01	0.05
FUG RCR-1	Railcar Rack Equipment Fugitives (5)	VOC	0.07	0.26
FUG TR-1/2	Truck Rack Equipment Fugitives	VOC	0.06	0.21
	(5)	BZ	0.02	0.02
OWS-2	Oil/Water Separator 2	VOC	5.00	1.90
		Individual Tanks		
80-62	IFR Tank 80-62	VOC	8.29	2.11
		BZ	0.42	0.09
80-64	IFR Tank 80-64	VOC	8.29	2.11
		BZ	0.42	0.09
100-57	IFR Tank 100-57	VOC	7.55	3.64
		BZ	1.78	1.71
100-60	IFR Tank 100-60	VOC	7.65	3.01
		BZ	0.38	0.13
100-61	IFR Tank 100-61	VOC	7.65	3.01
		BZ	0.38	0.13
100-63	63 IFR Tank 100-63	VOC	7.65	3.01
		BZ	0.38	0.13
175-59	IFR Tank 175-59	VOC	6.09	2.26
		BZ	0.31	0.09
200-20	IFR Tank 200-20	VOC	5.66	4.37

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		BZ	0.28	0.19
200-56	IFR Tank 200-56 (6)	VOC	2.01	2.67
200-57	IFR Tank 200-57 (6)	VOC	2.01	2.67
200-58	IFR Tank 200-58 (6)	VOC	2.01	2.67
390-23	IFR Tank 390-23 (6)	VOC	4.31	3.91
390-24	IFR Tank 390-24	VOC	4.31	3.91
		BZ	0.29	0.65
390-25	IFR Tank 390-25	VOC	4.74	6.00
		BZ	0.23	0.26
390-26	IFR Tank 390-26	VOC	4.74	6.00
		BZ	0.23	0.26
390-27	IFR Tank 390-27	VOC	4.74	6.00
		BZ	0.23	0.26
390-30	IFR Tank 390-30	VOC	4.74	4.70
		BZ	0.23	0.13
390-31	IFR Tank 390-31	VOC	4.74	4.70
		BZ	0.23	0.13
390-32	IFR 390-32	VOC	4.74	4.70
		BZ	0.23	0.13
390-33	IFR Tank 390-33	VOC	4.74	4.70
		BZ	0.23	0.13
390-34	IFR Tank 390-34	VOC	4.74	4.70
		BZ	0.23	0.13
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⁽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) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1

BZ - benzene

NO_x - total oxides of nitrogen

SO₂ - sulfur dioxide

PM - total particulate matter, suspended in the atmosphere, including PM_{10} and $PM_{2.5}$, as

represented

 PM_{10} - total particulate matter equal to or less than 10 microns in diameter, including $PM_{2.5}$, as

represented

PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter

CO - carbon monoxide

MSS - maintenance, start-up, shutdown

(4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.

- (5) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (6) Emission rates were calculated based on the permit by rule requirements at the time of submittal to Texas Commission on Environmental Quality (TCEQ); i.e., only VOC emissions are quantified. Estimated rates of benzene emissions from these sources would be based on the 'Emissions of Crude Oil and Refinery Petroleum Fractions Containing Less Than 10 percent Benzene,' defined in Table 478 of 30 TAC § 106.478.

Compliance Caps for Routine and MSS Emissions:

(7) The Hourly and Annual Tank Caps apply to the total emissions from the combined operations of these tanks. (12/11)

Hourly Routine Emissions Caps:

- (8) Hourly Tank VOC Cap [VOC Cap (lb/hr)] Applicable only to the hourly VOC emissions from routine operations of the permitted sources indicated in (7). This cap includes the BZ cap (lb/hr) defined in (9) but does not authorize emissions of this constituent greater than its specified cap. **(12/11)**
- (9) Hourly Tank Benzene Cap [BZ Cap (lb/hr)] A subcap of the VOC Cap (lb/hr). Applicable only to the hourly benzene emissions from the routine operations of the permitted sources indicated in (7). (12/11)

Annual Routine Emissions Caps:

- (10) <u>Annual Tank VOC Cap [VOC Cap (TPY)]</u> Applicable only to the annual VOC emissions from (a) the routine operations of the permitted sources indicated in (7) and (b), the MSS operations authorized by the MSS VOC Cap (TPY). The VOC Cap (TPY) includes the BZ Cap (TPY) defined in (11) but does not authorize emissions of this constituent greater than its specified cap. **(12/11)**
- (11) <u>Annual Tank Benzene Cap [BZ cap (TPY)]</u> A subcap of the VOC Cap (TPY). Applicable only to the annual benzene emissions from (a) the routine operations of the permitted sources indicated by (7), and (b) the MSS operations included in the MSS BZ Cap (TPY). **(12/11)**

Hourly MSS Caps:

- (12) Hourly MSS VOC Cap [MSS VOC Cap (lb/hr)] Separate from the VOC Cap (lb/hr), includes the MSS BZ lb/hr cap defined in (13) but does not authorize emissions of this constituent greater than its specified maximum value. Applicable only to the total VOC emissions from the standing idle, re-filling, and degassing periods of the roof landing operations conducted for any combination of IFR vessels authorized by this permit. This cap's maximum value is compound specific, and determined by the equation in Special Condition No. 18 with use of 0.80 as the value of the specified factor (note: the value of the factor in Special Condition No. 18, i.e., 0.75, is applicable only to re-fill emissions). (12/11)
- (13) Hourly MSS BZ Cap [MSS BZ Cap (lb/hr)] A subcap of the MSS VOC Cap (lb/hr), separate from the BZ Cap (lb/hr) defined in (9). Applicable only to the total benzene emissions from the standing idle, re-filling, and de-gassing periods of the roof landing operations conducted for any combination of IFR vessels authorized by this permit. This cap's maximum value (59.82 lb/hr) is based on the worst-case emission scenario for benzene. (12/11)

Annual MSS Caps:

- (14) <u>Annual MSS VOC Cap [MSS VOC Cap (TPY)]</u> A subcap of the VOC Cap (TPY), applicable only to the annual VOC emissions from the authorized MSS operations, including (a) those associated with tank roof landings of the permitted sources, and (b) the flares used to control these emissions. **(12/11)**
- (15) Annual MSS BZ Cap [MSS BZ Cap (TPY)] A subcap (not contained in the MSS VOC Cap (TPY)) of the BZ cap (TPY) defined in (11). Applicable only to the annual benzene emissions from (a) the standing idle, re-filling and de-gassing periods of the roof landing operations conducted for any combination of IFR vessels authorized by this permit, and (b) the flares used to control these emissions. (12/11)

List of Unmodified Tanks:

(16) As referenced in Special Condition No. 14, the following are existing, unmodified IFR storage tanks per this permit's MAERT dated February 10, 2009: 27-14, 27-15, 80-4, 80-7, 80-10, 80-12, 80-43, 80-44, 80-45, 80-46, 100-47, 100-48, 100-49, 100-54, 100-55, 150-9, 150-40, 150-41, 150-42, 200-8, 200-11, 200-51, 200-53, 250-50, 250-52, 260-5, 260-6, 300-1, 300-2, 300-3, 300-4, 300-21, 300-22, C80-4, LD-111, LD-112, LD-113, LD-114, TH-501, and TH-502 from the Overall VOC Emission Cap. Also included are Tanks 80-62, 80-64, 100-57, 100-60, 100-61, 100-63, 175-59, 200-20, 200-56, 200-57, 200-58, 390-23, 390-24, 390-25, 390-26, 390-27, 390-30, 390-31, 390-32, 390-33, and 390-34. (12/11)

Dated: December 27, 2011