

EMISSION SOURCES - EMISSIONS CAPS

Flexible Permit Numbers 9708 and PSDTX861M2

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. Any proposed increase in emission rates may require an application for a modification of the facilities covered by this permit.

(See Attachment I for Source Name and Emission Point Number Index)

AIR CONTAMINANTS DATA

Emission Point No. (1) TPY**	Source Name (2)	Emission Rates *	
		Year	lb/hr

VOC CAPS:

Combustion Units, Tanks, Process Vents, Loading, Flares, Vapor Combustors, Fugitives, Wastewater, Cooling Towers, Engines, Relief Valves, and Maintenance (4)	Initial	2199.5	1271.9
	Initial Subcap***	2195.9	1256.2
	Final	2303.72	1646.36
	Final Subcap***	2300.14	1630.69

VOC SUBCAP: (6)

Tanks (S-001, S-009, S-021, and S-229), New Railcar Rack (L-15), Vapor Combustor (FL-7), Fugitives (F-MSAT and F-MSATLOAD)	27.58	47.30
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NO_x CAPS:

Combustion Units, Flares, Vapor Combustors, Process Vents, Loading, Engines, and Maintenance	Initial	954.0	3511.1
	Final	534.99	1853.89

NO_x SUBCAP: (6)

Vapor Combustor (FL-7)	2.54	1.41
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CO CAPS:

Combustion Units, Flares, Vapor Combustors, Process Vents, Loading, Engines, and Maintenance	Initial	1400.0	3080.0
	Final	1535.18	3569.42

CO SUBCAP: (6)

Vapor Combustor (FL-7)	7.82	4.60
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AIR CONTAMINANTS DATA

Emission Point No. (1) TPY**	Source Name (2)	Emission Rates *	
		Year	lb/hr

SO₂ CAPS:

Combustion Units, Flares, Vapor Combustors, Process Vents, Loading, Engines, and Maintenance	Initial	1642.5	4709.1
	Final	1220.51	2838.56

SO₂ SUBCAP: (6)

Vapor Combustor (FL-7)		0.10	0.03
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PM CAPS:

Combustion Units, Flares, Vapor Combustors, Process Vents, Engines, and Maintenance (4)	Initial	364.7	1563.2
	Final	150.45	621.09

BENZENE CAPS:

Tanks, Cooling Towers, and Loading, Fugitives	Initial	1.3	954.0
	Final	11.9	551.21

BENZENE SUBCAP: (6)

Tanks (S-001, S-009, and S-021), New Railcar Rack (L-15), Vapor Combustor (VCU-2), Fugitives (F-MSAT and F-MSATLOAD)		9.51	11.94
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H₂S CAPS:

Flares, Process Vents, Fugitives, and Maintenance (4)	Initial	10.4	1400.0
	Final	7.6	1542.65

SULFURIC ACID CAPS:

Process Vents	Initial	10.6	1642.5
	Final	12.4	1223.08

CHLORINE CAPS:

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Emission Rates *	
		Year	lb/hr

TPY**

Process Vents	Initial	4.3	364.7
	Final	0.4	151.13

HCl CAPS:

Process Vents and Maintenance	Initial	20.4	4.0
	Final	7.1	4.3

NH₃ CAPS:

Process Vents, Fugitives, and Maintenance (4)	Initial	800.3	164.6
	Final	800.4	164.8

MAINTENANCE EMISSIONS CAPS: (5)

VOC	(5)	3671.95	46.52
NO _x	(5)	97.28	2.45
CO	(5)	646.55	7.40
SO ₂	(5)	1768.80	6.13
H ₂ S	(5)	19.31	0.05
HCl	(5)	4.0	0.002
NH ₃	(5)	700	0.95
PM/PM ₁₀ /PM _{2.5} ****	(5)	1.98	0.40

**INTERIM - MAINTENANCE, STARTUP, and
SHUTDOWN EMISSIONS CAPS: (5)**

VOC	(5)	6475.12	79.64
NO _x	(5)	97.28	2.45
CO	(5)	646.55	7.40
SO ₂	(5)	1768.80	6.13
H ₂ S	(5)	19.31	0.05
HCl	(5)	4.0	0.002
NH ₃	(5)	700	0.95
PM/PM ₁₀ /PM _{2.5} ****	(5)	1.98	0.40

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- (1) Emission point identification - either specific equipment designation or emission point number (EPN) from a plot plan.
- (2) Specific point source names. For fugitive sources, use an area name or fugitive source name.
- (3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1.
NO_x - total oxides of nitrogen
CO - carbon monoxide
SO₂ - sulfur dioxide
H₂S - hydrogen sulfide
HCl - hydrogen chloride
NH₃ - ammonia
PM - particulate matter, suspended in the atmosphere, including PM₁₀
PM₁₀ - particulate matter equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no PM greater than 10 microns is emitted.
PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter
- (4) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations
- (5) In accordance with Special Condition No. 59, the maintenance emission caps become effective 180 days after the date the permit is issued. The interim maintenance emission caps become effective immediately upon permit issuance.
- (6) The emission rates listed for the VOC, NO_x, and CO subcaps are included in the total VOC, NO_x, and CO cap for the site.

* Emission rates are based on operating 8,760 hrs/year.

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

*** The VOC subcap applies only when EPN F-ISO is taken off-line.

**** 100 percent of the PM₁₀ may be PM_{2.5}.

Dated July 27, 2010