

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 3069A

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.

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY**
B-1	400-Horse Power (Hp) Boiler	VOC	0.11	0.40
		NO _x	4.03	7.94
		CO	1.98	6.05
		SO ₂	5.09	5.04
		PM ₁₀	0.36	0.66
B-2	400-Hp Boiler	VOC	0.11	0.40
		NO _x	4.03	7.94
		CO	1.98	6.05
		SO ₂	5.09	5.04
		PM ₁₀	0.36	0.66
BOT 1	Batch Out Tank	VOC	0.01	0.01
BOT 2	Batch Out Tank	VOC	0.01	0.01
BOT 3	Batch Out Tank	VOC	0.01	0.01
BOT 5	Batch Out Tank	VOC	0.01	0.01
BOT 8	Batch Out Tank	VOC	0.01	0.01
BOT/MUT 4	Batch Out Tank	VOC	0.01	0.01
BOT/MUT 9	Batch Out Tank	VOC	0.01	0.01
BOT-9	Batch Out Tank	VOC	0.01	0.01
D-1	Centrifugal Dryer D-1	VOC	0.62	2.72
D-2	Centrifugal Dryer D-2	VOC	0.62	2.72
D-3	Centrifugal Dryer D-3	VOC	0.62	2.72

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D-4	Centrifugal Dryer D-4	VOC	0.62	2.72
VCU	Vapor Combustion Unit			
TO-1	Thermal Oxidizer			
CD-2	Alternative Control Device-2 Combined VCU/TO-1/CD	VOC	5.56	20.75
		NO _x	2.25	9.86
		CO	8.24	36.11
MUTVENT-1	Blower Vent from Poly Silo to MUT	PM ₁₀	0.26	0.06
MUTVENT-2	Blower Vent from Poly Silo to MUT	PM ₁₀	0.26	0.06
EXTRUDER-1	EPS/PS Extrusion (5)			
EXTRUDER-2	EPS/PS Extrusion (5)	VOC	2.20	6.50
P-1	Torit Filter	PM ₁₀	0.26	0.06
R-9	Reactor 9	VOC	31.54	2.62
REACTFUG-1	Reactor 1 Manway Fugitives	VOC	11.82	0.90
REACTFUG-2	Reactor 2 Manway Fugitives	VOC	11.82	0.90
REACTFUG-3	Reactor 3 Manway Fugitives	VOC	11.82	0.90
REACTFUG-4	Reactor 4 Manway Fugitives	VOC	11.82	0.90
REACTFUG-5a	Reactor 5a Manway Fugitives	VOC	11.82	0.72
REACTFUG-6	Reactor 6 Manway Fugitives	VOC	15.06	1.15

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REACTFUG-7	Reactor 7 Manway Fugitives	VOC	15.06	1.15
REACTFUG-8	Reactor 8 Manway Fugitives	VOC	11.82	0.90
RPV-1	Reactor 1, 6, 7, and 8 Purge Vent	VOC	26.88	0.82
RPV-2	Reactor 2 Purge Vent	VOC	11.82	0.18
RPV-3	Reactor 3 Purge Vent	VOC	11.82	0.18
RPV-4	Reactor 4 Purge Vent	VOC	11.82	0.18
RPV-5a	Reactor 5a Purge Vent	VOC	11.82	0.18
RPV-9	Reactor 9 Purge Vent	VOC	31.54	0.48
RPV-10	Reactor 10 Purge Vent	VOC	31.54	0.48
RPV-11	Reactor 11 Purge Vent	VOC	31.54	0.48
S-1	Polystyrene Silo	PM ₁₀	0.04	0.06
S-2	Polystyrene Silo	PM ₁₀	0.04	0.06
S-3	Polystyrene Silo	PM ₁₀	0.04	0.06
S-4	Polystyrene Silo	PM ₁₀	0.04	0.06
S-5	Polystyrene Silo	PM ₁₀	0.04	0.06
S-6	Polystyrene Silo	PM ₁₀	0.04	0.06
S-7	Polystyrene Silo	PM ₁₀	0.04	0.06
S-8	Polystyrene Silo	PM ₁₀	0.04	0.06
S-9	Polystyrene Silo	PM ₁₀	0.04	0.06

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S-10 SOCMIFUG	Polystyrene Silo Fugitives (4)	PM ₁₀	0.04	0.06
		VOC	0.87	3.80
T-4	Styrene Storage Tank	VOC	0.06	0.16
T-5	Styrene Storage Tank	VOC	0.06	0.16
T-6	Styrene Storage Tank	VOC	0.06	0.16
T-32	HCl Tank	HCl	2.61	0.01
Wastewater	Wastewater Fugitives	VOC	0.88	0.89

(1) Emission point identification - either specific equipment designation or emission point number 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

PM₁₀ - particulate matter (PM) 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.

HCl - hydrogen chloride

(4) Emission rate is an estimate and compliance is demonstrated by meeting the requirements of the applicable special conditions and permit application representations.

(5) Either Extruder 1 or 2 may operate up to the allowable emission limits.

* 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 18, 2010