

Emission Sources - Maximum Allowable Emission Rates

Permit Number 18105

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)
029AV3	Feed Purification Analyzer Vents	VOC	0.23	1.02
029AV4	Line 1 Material Recovery Analyzer Vents	VOC	0.16	0.70
029AV5	Line 2 Material Recovery Analyzer Vents	VOC	0.21	0.94
064EX104	Processing Area Extruder 104	PM	0.32	1.43
		PM _{2.5}	0.32	1.43
		PM ₁₀	0.14	0.64
		VOC	14.67	9.63
		Acetone	3.10	4.52
064EX106	Processing Area Extruder 106	PM	0.32	1.43
		PM _{2.5}	0.32	1.43
		PM ₁₀	0.14	0.64
		VOC	14.67	9.63
		Acetone	3.10	4.52
064EX104 / 064EX106	CAP for Processing Area Extruders 104 and 106	PM	0.32	1.43
		PM _{2.5}	0.32	1.43
		PM ₁₀	0.14	0.64
		VOC	14.67	9.63
		Acetone	3.10	4.52
064F126	Processing Area Baghouse	PM	1.89	8.29
		PM _{2.5}	1.89	8.29
		PM ₁₀	1.89	8.29
064S104A	Pellet Dryer	PM	0.14	0.62
		PM _{2.5}	0.14	0.62
		PM ₁₀	0.14	0.62
064S106A	Pellet Dryer	PM	0.43	1.88

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		PM ₁₀	0.43	1.88
		PM _{2.5}	0.19	0.84
072AV1	Line 1 Synthesis Area Analyzer Vents	VOC	0.001	0.004
072AV2	Line 2 Synthesis Area Analyzer Vents	VOC	0.001	0.003
072D141	Line 1 Pellet Dryer with Exhaust Blower	VOC	1.29	5.09
		PM	0.65	2.10
		PM _{2.5}	0.65	2.10
		PM ₁₀	0.65	2.10
		Acetone	1.16	0.98
072D141A	Line 2 Pellet Dryer with Exhaust Blower	VOC	1.29	5.09
		PM	0.65	2.10
		PM _{2.5}	0.65	2.10
		PM ₁₀	0.65	2.10
		Acetone	1.16	0.98
072D141/ 072D141A	Combined Limit for Line 1 and Line 2 Pellet Dryers	VOC	1.29	5.09
		PM	1.30	4.20
		PM _{2.5}	1.30	4.20
		PM ₁₀	1.30	4.20
		Acetone	1.16	0.98
072F251	Synthesis Area Baghouse and Polypropylene load out area	PM	1.90	8.29
		PM _{2.5}	1.90	8.29
		PM ₁₀	1.90	8.29
		VOC	29.67	9.86
		Acetone	4.00	3.40
072T133/139	Combined Limit for Line 1 Organic Peroxide Tanks	VOC	0.01	0.0007
072T133A/139A	Combined Limit for Line 2 Organic Peroxide Tanks	VOC	0.01	0.0007
072T150	Catalyst Tank	VOC	0.07	0.008
072T150A	Catalyst Tank	VOC	0.07	0.008

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072T158	Donor/Atmer Tank	VOC	0.43	0.05
072T159	Donor/Atmer Tank	VOC	0.43	0.05
139AVOX	Propylene Unloading Oxygen Analyzer Vent	VOC	0.05	0.22
139AVSULF	Propylene Unloading Sulfur Analyzer Vent	VOC	0.18	0.78
148T153	Donor Tank	VOC	0.47	0.05
148T153A	Donor Tank	VOC	0.47	0.05
148T157	Donor Tank	VOC	0.47	0.05
148T157A	Donor Tank	VOC	0.47	0.05
238FL301	PP-2 Line 1 Continuous Low-Pressure Flare	NO _x	27.73	13.24
		NO _x (MSS)	150.79	1.09
		CO	109.38	110.32
		CO (MSS)	600.54	4.13
		SO ₂	0.02	0.09
		VOC	101.00	86.55
		VOC (MSS)	1110.05	4.81
238FL301A	PP-2 Line 2 Continuous Low-Pressure Flare	NO _x	27.73	13.24
		NO _x (MSS)	150.79	1.09
		CO	109.38	110.32
		CO (MSS)	600.54	4.13
		SO ₂	0.02	0.09
		VOC	101.00	86.55
		VOC (MSS)	1110.05	4.81
238FL301/ 238FL301A	Combined Limit for PP-2 Line 1 and Line 2 Low Pressure Flares	NO _x	27.76 (6)	13.14 (6)
		NO _x (MSS)	150.79	1.09
		CO	109.66 (6)	110.46 (6)
		CO (MSS)	600.54	4.13
		SO ₂	0.04	0.18
		VOC	101.00	86.55 (6)
		VOC (MSS)	1110.05	4.81

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238FL330	PP-2 High Pressure Flare	NO _x	0.03	0.14
		CO	0.28	1.22
		SO ₂	<0.01	<0.01
238FL330A	PP-2 High Pressure Flare	NO _x	0.03	0.14
		CO	0.28	1.22
		SO ₂	<0.01	<0.01
FUGS	Plant Fugitives (5)	CO	0.90	3.70
		VOC	10.93	47.83
MSSATM	MSS Activities to Atmosphere	VOC (MSS)	238.05	3.79
PROCBINSYS	Process Area Bins and Systems	PM	1.18	5.18
		PM ₁₀	1.18	5.18
		PM _{2.5}	0.99	4.36
TECHLAB	Tech Lab	VOC	0.06	0.25
		Acetone	0.06	0.25
SYNTHFUGS	Synthesis Area Particulate Fugitives	PM	2.12	5.60
		PM ₁₀	2.12	5.60
		PM _{2.5}	2.12	5.60
064T103A	Peroxide Tank	VOC	0.01	0.0017
064T103B	Peroxide Tank	VOC	0.01	0.0017
064AV6	Analyzer Vent	VOC	0.0002	0.0008
064AV7	Analyzer Vent	VOC	0.0002	0.0008
072AV8	Analyzer Vent	VOC	0.002	0.008

- (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
 - NO_x - total oxides of nitrogen
 - SO₂ - sulfur dioxide
 - PM - total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}, as represented
 - PM₁₀ - 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
- (4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period.
- (5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.

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- (6) The combined limit includes pilot gas emissions from both flares and emissions from controlling vent gas streams.
- (7) The propylene unloading rack MSS flare cannot be operated if two reactors are being purged simultaneously to the Low-Pressure Flares at the Synthesis Unit.

Date: September 23, 2022