

Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 127838 and PSDTX1588M1

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)
PE3-01	Dry Catalyst Filter	PM	<0.01	<0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
PE3-02A	Elutriator Cyclone A	PM	0.40	1.75
		PM ₁₀	0.13	0.56
		PM _{2.5}	0.03	0.15
		VOC	0.22	(6)
PE3-02B	Elutriator Cyclone B	PM	0.40	1.75
		PM ₁₀	0.13	0.56
		PM _{2.5}	0.03	0.15
		VOC	0.22	(6)
PE3-03	Powder Surge Hopper Filter	PM	0.01	0.03
		PM ₁₀	0.01	0.03
		PM _{2.5}	0.01	0.03
		VOC	0.15	0.66
PE3-04	Powder Feeder Filter	PM	<0.01	0.02
		PM ₁₀	<0.01	0.02
		PM _{2.5}	<0.01	0.02
		VOC	0.10	0.44
PE3-05	Additive Hopper Filter	PM	0.01	0.02
		PM ₁₀	0.01	0.02
		PM _{2.5}	0.01	0.02
PE3-06	Additive Feeder Filter	PM	<0.01	0.01
		PM ₁₀	<0.01	0.01
		PM _{2.5}	<0.01	0.01
		PM	0.62	2.73

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		PM ₁₀	0.01	0.03
		PM _{2.5}	<0.01	0.01
		VOC	0.97	(6)
PE3-08A	Product Silo A Filter	PM	0.33	0.73
		PM ₁₀	0.33	0.73
		PM _{2.5}	0.33	0.73
		VOC	0.91	(6)
PE3-08B	Product Silo B Filter	PM	0.33	0.73
		PM ₁₀	0.33	0.73
		PM _{2.5}	0.33	0.73
		VOC	0.91	(6)
PE3-10, PE3-15	Elevated Flare or Enclosed Ground Flare Hourly CAP	CO (Elevated Flare Option)	58.52	-
		NO _x (Elevated Flare Option)	11.36	-
		CO (EGF Option)	92.00	-
		NO _x (EGF Option)	23.27	-
		SO ₂	<0.01	-
		VOC	148.05	-
PE3-10, PE3-15	Elevated Flare or Enclosed Ground Flare Annual CAP	CO	-	7.49
		NO _x	-	2.64
		SO ₂	-	0.01
		VOC	-	9.74
PE3-11A, PE3-11B, HEX-02	Thermal Oxidizers A & B, Hexene Plant Thermal Oxidizer	NO _x	2.53	4.12
		PM	0.31	0.51
		PM ₁₀	0.31	0.51
		PM _{2.5}	0.31	0.51
		CO	3.48	5.66
		SO ₂	0.02	0.01
		VOC	0.93	2.30
PE3-12	PE3 Cooling Tower (5)	Chlorine Compounds	<0.01	<0.01
		PM	1.53	4.29
		PM ₁₀	0.36	1.56
		PM _{2.5}	<0.01	0.01

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		VOC	1.18	5.17
PE3-13	Fugitives (5)	Cl ₂	<0.01	0.02
		VOC	12.03	52.68
PE3-14	Extruder Feed Hopper Filter	PM	<0.01	0.01
		PM ₁₀	<0.01	0.01
		PM _{2.5}	<0.01	0.01
		VOC	0.03	0.15
PE3-MAINT	PE3 Maintenance Fugitives	VOC	79.04	0.42
		PM	11.96	0.05
		PM ₁₀	6.52	<0.01
		PM _{2.5}	6.52	<0.01
PE3-10, PE3-15, PE3-TEMP	PE3 Flare System or Temporary Control Device (PE3 MSS Contribution) Hourly CAP	VOC	506.36	-
		NO _x (Elevated Flare Option)	49.04	-
		CO (Elevated Flare Option)	278.85	-
		NO _x (EGF Option)	99.51	-
		CO (EGF Option)	437.51	-
PE3-10, PE3-15, PE3-TEMP	PE3 Flare System or Temporary Control Device (PE3 MSS Contribution) Annual CAP	VOC	-	4.13
		NO _x	-	2.24
		CO	-	18.81
PE3-CAP	Cap for Downstream Pellet Handling VOCs	VOC (6)	-	10.13

- (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
Cl₂ - chlorine
Chlorine Compounds- hypochlorous acid and hydrogen chloride
EGF - Enclosed Ground Flare
- (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.
- (6) EPN PE3-CAP is representative of the annual cap for downstream pellet handling VOC emissions of the indicated EPNs.

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Date: September 22, 2023