

Emission Sources - Maximum Allowable Emission Rates

Permit Number 46431

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)
A36S531	Thermal Oxidizer (7)	NO _x	1.68	6.04
		PM	0.22	0.80
		PM ₁₀	0.22	0.80
		PM _{2.5}	0.22	0.80
		SO ₂	0.42	0.11
		CO	6.89	10.61
		HCl	0.43	1.88
		VOC	0.34	0.72
		Cl ₂	0.03	0.14
		Propylene	0.01	0.01
A36S531	Thermal Oxidizer MSS (6)	NO _x	2.80	0.32
		CO	16.72	1.45
		VOC	0.34	0.01
		PM	0.22	0.02
		PM ₁₀	0.22	0.02
		PM _{2.5}	0.22	0.02
		SO ₂	0.42	0.03
		HCl	1.81	0.06
		Cl ₂	0.04	0.01

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A36S621	F-621 Furnace	NO _x	4.74	20.76
		PM	1.37	5.98
		PM ₁₀	1.37	5.98
		PM _{2.5}	1.37	5.98
		SO ₂	2.57	0.45
		CO	15.43	67.60
		VOC	1.41	6.18
		NH ₃	0.95	4.15
		HCl	2.05	3.59
		Cl ₂	0.06	0.10
A36S621	F-621 Furnace (MSS) (6)	NO _x	14.77	0.36
		PM	0.75	0.04
		PM ₁₀	0.75	0.04
		PM _{2.5}	0.75	0.04
		SO ₂	1.41	0.01
		CO	16.98	0.43
		VOC	0.54	0.03
A36S611	Cooling Tower	VOC	0.95	4.14
		Propylene	0.32	1.38
		PM	1.16	3.90
		PM ₁₀	0.49	1.70
		PM _{2.5}	0.23	0.76
A36F532	Flare (7)	NO _x	1.38	0.94
		SO ₂	0.25	0.02
		CO	29.89	15.46
		VOC	2.93	1.37
		Cl ₂	0.25	0.23
		HCl	11.24	10.54

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A36F532	Flare (MSS) (6)	NO _x	0.16	0.07
		SO ₂	0.02	<0.01
		CO	16.00	2.07
		VOC	0.83	0.07
		Cl ₂	0.28	0.30
		HCl	12.24	2.70
A36S533	Fugitive Area SK -533 (5)	VOC	0.10	0.44
		HCl	0.16	0.70
		Cl ₂	0.01	0.01
A36S533	SK-533 Fugitive Area (MSS)	VOC	0.05	0.01
		HCl	0.02	0.01
A36FU02	Process Fugitive Area (5)	VOC	0.51	2.14
		HCl	0.15	0.63
		CO	< 0.01	0.03
		NH ₃	0.01	0.05
		Propylene	0.07	0.28
		Cl ₂	< 0.01	0.03
A36MEFU02	Process Fugitive Area (MSS)	VOC	7.49	1.95
		HCl	0.22	0.01
		Cl ₂	0.01	0.01
	MSS Attachment A Activities	VOC	0.38	0.05
A36TL1	Waste/Clean MCB Loading	VOC	1.48	0.09

- (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) Exempt Solvent - Those carbon compounds or mixtures of carbon compounds used as solvents which have been excluded from the definition of volatile organic compound.
- 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

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PM _{2.5}	- particulate matter equal to or less than 2.5 microns in diameter
CO	- carbon monoxide
HCl	- hydrogen chloride
Cl ₂	- chlorine
NH ₃	- ammonia

- (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) MSS allowables are in addition to routine allowables (not in place of).
- (7) The flare (EPN A36F32) and thermal oxidizer (EPN A36S531) routine emissions include emissions generated in the MMDI unit authorized in Permit No. 153832.

Date: TBD