

Emission Sources - Maximum Allowable Emission Rates

Permit Number 292

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)	Facility Identification No and Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
E-DF137	TE-DF137 – Tank 137	VOC	0.22	2.51
E-DF138	TE-DF138 – Tank 138	VOC	0.29	
E-DF139	TE-DF139 – Tank 139	VOC	2.67	
E-DF140	TE-DF140 – Tank 140	VOC	2.67	
E-DF142	TE-DF142 – Tank 142	VOC	0.04	
E-RGTO	RTO1, RTO2 - Regenerative Thermal Oxidizers	NOx	4.64	20.34
		CO	4.90	21.26
		VOC	28.02	107.56
		PM	0.44	1.92
		PM ₁₀	0.44	1.92
		PM _{2.5}	0.44	1.92
		SO ₂	0.80	3.52
E-DM801 and E-M600R	DM801, M600R - Flares	NOx	10.11	3.05
		CO	40.28	12.16
		VOC	69.06	15.46
		SO ₂	1.61	0.09
E-FCRUMB, E-FCRUMB3, E-NCHOODED, E-SCHOODED, E-NSPIRAL, E-SSPIRAL, E-NCDWP, E-SCDWP, E-TCDWS, E-TCDWP, E-TCHOOED	E-DG508, E-DG509, E-DG1501, F-NCHOODED, F-SCHOODED, F-NSPIRAL, F-SSPIRAL, E-NCDWS, E-SCDWS, E-NCDWP, E-SCDWP	VOC	116.80	227.09

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	E-TCDWS E-TCDWP F-TCHOODED - Product Fugitives (5)			
E-PDN100, E-P200, E- P500, E-PSTF, E- P951, E-PBIO	P-BIO, P-DRY, P-500DRDN, P- STF, P-BIO - Wastewater	VOC	4.88	20.35
E-LOAD	F-LOAD - Loading Fugitives	VOC	1.58	0.03
FLEX-FUG	PIPING-FUG - All Fugitives (5)	VOC	19.25	84.49
F-DK801	P-DK801 - Cooling Tower	VOC	1.47	6.44
		PM	1.30	5.68
		PM ₁₀	1.30	5.68
		PM _{2.5}	1.30	5.68
F-DK1801	P-DK1801 - Cooling Tower	VOC	1.05	4.60
		PM	0.93	4.05
		PM ₁₀	0.93	4.05
		PM _{2.5}	0.93	4.05
MSS-Total	MSS-Total Maintenance, Startup and Shutdown	VOC	287.28	8.76
		NOx	27.31	0.83
		CO	124.99	3.36
		PM	0.03	0.01
		PM ₁₀	0.03	0.01
		PM _{2.5}	0.03	0.01
		BF ₃ (as HF)	1.65	0.01
EB-110	B-110 – Boiler 298 MMBtu/hr Natural gas	NOx	10.43	46.70
		CO	20.86	91.40
		PM	2.71	11.90
		PM ₁₀	2.71	11.90
		PM _{2.5}	2.71	11.90

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		SO ₂	4.37	19.10
		VOC	1.96	8.60
ODOR-FUG	ODOR-FUG - Odorant system fugitives (5)	VOC	<0.01	0.01

- (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
BF₃ - boron trifluoride
HF - hydrogen fluoride
(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.

Date: November 30, 2018