

Emission Sources - Maximum Allowable Emission Rates

Permit Number 2958A

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)
E02B030	Boiler No. 53 (6)			
	Firing a Blend of Fuel Gas and Residual Waste	PM	22.92	-
		PM ₁₀	22.92	-
		PM _{2.5}	22.92	-
		VOC	1.91	-
		NO _x	46.80	-
		SO ₂	9.08	-
		CO	33.09	-
	Firing 100 Percent Fuel Gas	PM	2.21	-
		PM ₁₀	2.21	-
		PM _{2.5}	2.21	-
		VOC	0.97	-
		NO _x	26.46	-
		SO ₂	6.03	-
		CO	28.15	-
		CO (MSS) (8)	100.00	-
	Residue Line Change (7)	PM	0.01	-
		PM ₁₀	0.01	-
		PM _{2.5}	0.01	-
		VOC	0.01	-
		NO _x	82.80	-
		SO ₂	0.01	-
		CO	183.09	-

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	Annual Emissions	PM	-	18.75
		PM ₁₀	-	18.75
		PM _{2.5}	-	18.75
		VOC	-	3.82
		NO _x	-	170.82
		SO ₂	-	21.99
		CO	-	131.58
F02B001-01	Boiler No. 53 Fugitives (5)	VOC	0.11	0.46

- (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.
- (6) The emission rates are based on the Boiler No. 53 maximum design heat input capacity of 441 MMBtu/hr when firing 100 percent plant mixed fuel gas only and 390 MMBtu/hr when firing the fuel gas/residual waste fuel combination. Boiler No. 53 shall operate in either of the three modes: firing 100 percent plant mix fuel gas, firing the fuel gas/residual waste fuel combination, or purging with nitrogen during residue line changes.
- (7) Excess NO_x and CO emissions resulting from residue line changes are limited to 180 hours per rolling 12-months
- (8) This hourly emission rate is limited to start-up and shutdown events not to exceed 16 hours per event and not to exceed 16 events per rolling 12-months

Date: August 10, 2023