

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 4476

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. 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 *	
			lb/hr	TPY**
5C1-1	C1 Reactor	NO <sub>x</sub>	1.77	--
		CO	8.13	--
		SO <sub>2</sub>	6.71	--
		PM	0.93	--
		PM <sub>10</sub>	0.93	--
		VOC	0.89	--
		TF	0.36	--
		POM	0.33	--
5C1-2	C1 Reactor	NO <sub>x</sub>	1.77	--
		CO	8.13	--
		SO <sub>2</sub>	6.71	--
		PM	0.93	--
		PM <sub>10</sub>	0.93	--
		VOC	0.89	--
		TF	0.36	--
		POM	0.33	--
5C1-3	C1 Reactor	NO <sub>x</sub>	1.77	--
		CO	8.13	--
		SO <sub>2</sub>	6.71	--
		PM	0.93	--
		PM <sub>10</sub>	0.93	--
		VOC	0.89	--
		TF	0.36	--
		POM	0.33	--

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
5C1-1 through 5C1-3	C1 Reactor Total	NO <sub>x</sub>	5.31	--
		CO	24.39	--
		SO <sub>2</sub>	20.13	--
		PM	2.79	--
		PM <sub>10</sub>	2.79	--
		VOC	2.67	--
		TF	1.09	--
		POM	0.99	--
5C2-1	C2 Reactor	NO <sub>x</sub>	1.77	--
		CO	8.13	--
		SO <sub>2</sub>	6.71	--
		PM	0.70	--
		PM <sub>10</sub>	0.70	--
		VOC	0.89	--
		TF	0.36	--
		POM	0.33	--
5C2-2	C2 Reactor	NO <sub>x</sub>	1.77	--
		CO	8.13	--
		SO <sub>2</sub>	6.71	--
		PM	0.70	--
		PM <sub>10</sub>	0.70	--
		VOC	0.89	--
		TF	0.36	--
		POM	0.33	--
5C2-3	C2 Reactor	NO <sub>x</sub>	1.77	--
		CO	8.13	--
		SO <sub>2</sub>	6.71	--
		PM	0.70	--
		PM <sub>10</sub>	0.70	--
		VOC	0.89	--
		TF	0.36	--
		POM	0.33	--

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
5C2-1 through 5C2-3	C2 Reactor Total	NO <sub>x</sub>	5.31	--
		CO	24.39	--
		SO <sub>2</sub>	20.13	--
		PM	2.10	--
		PM <sub>10</sub>	2.10	--
		VOC	2.67	--
		TF	1.09	--
		POM	0.99	--
5C3-1	C3 Reactor	NO <sub>x</sub>	1.77	--
		CO	8.13	--
		SO <sub>2</sub>	6.71	--
		PM	0.70	--
		PM <sub>10</sub>	0.70	--
		VOC	0.89	--
		TF	0.36	--
		POM	0.33	--
5C3-2	C3 Reactor	NO <sub>x</sub>	1.77	--
		CO	8.13	--
		SO <sub>2</sub>	6.71	--
		PM	0.70	--
		PM <sub>10</sub>	0.70	--
		VOC	0.89	--
		TF	0.36	--
		POM	0.33	--
5C3-3	C3 Reactor	NO <sub>x</sub>	1.77	--
		CO	8.13	--
		SO <sub>2</sub>	6.71	--
		PM	0.70	--
		PM <sub>10</sub>	0.70	--
		VOC	0.89	--
		TF	0.36	--
		POM	0.33	--

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			<u>lb/hr</u>	<u>TPY**</u>
5C3-1 through 5C3-3	C3 Reactor Total	NO <sub>x</sub>	5.31	--
		CO	24.39	--
		SO <sub>2</sub>	20.13	--
		PM	2.10	--
		PM <sub>10</sub>	2.10	--
		VOC	2.67	--
		TF	1.09	--
		POM	0.99	--
5C1 through 5C3	C1, C2, and C2 Reactors Total Annual	NO <sub>x</sub>	--	46.52
		CO	--	213.71
		SO <sub>2</sub>	--	176.24
		PM	--	21.43
		PM <sub>10</sub>	--	21.43
		VOC	--	23.43
		TF	--	9.56
		POM	--	8.61
F5F160	Building Fugitives (4)	PM	0.004	0.009
		PM <sub>10</sub>	0.002	0.005

(1) Emission point identification - either specific equipment designation or emission point number from a plot plan.

(2) Specific point source names. For fugitive sources, use an area name or fugitive source name.

(3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1

NO<sub>x</sub> - total oxides of nitrogen

SO<sub>2</sub> - sulfur dioxide

PM - particulate matter, suspended in the atmosphere, including PM<sub>10</sub>.

PM<sub>10</sub> - particulate matter equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no PM greater than 10 microns is emitted.

CO - carbon monoxide

TF - total fluorides

POM - polycyclic organic matter

- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

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#### EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

\* Emission rates are based on and the facilities are limited by the following maximum operating schedule:

\*\* Compliance with annual emission limits is based on a rolling 12-month period.

\_\_\_\_\_ Hrs/day \_\_\_\_\_ Days/week \_\_\_\_\_ Weeks/year or 8,760 Hrs/year

Dated July 29, 2005