# Permit Number 19041

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)	Emissio	n Rates
	(2)		lbs/hour	TPY (4)
OC5S201H	EDC Cracking Furnace F-201 (6)	voc	0.51	2.22
	Fulliace F-201 (0)	NO <sub>x</sub>	5.64	23.47
		СО	8.72	19.09
		SO <sub>2</sub>	0.06	0.24
		PM	0.66	2.91
		PM <sub>10</sub>	0.66	2.91
		PM <sub>2.5</sub>	0.66	2.91
OC5S202H	EDC Cracking Furnace F-202 (6)	voc	0.51	2.22
	Fulfiace F-202 (0)	NO <sub>x</sub>	5.64	23.47
		СО	8.72	19.09
		SO <sub>2</sub>	0.06	0.24
		PM	0.66	2.91
		PM <sub>10</sub>	0.66	2.91
		PM <sub>2.5</sub>	0.66	2.91
OC5S203H	EDC Cracking Furnace F-203 (6)	VOC	0.51	2.22
	1 4111466 1 200 (0)	NO <sub>x</sub>	5.64	23.47
		СО	8.72	19.09
		SO <sub>2</sub>	0.06	0.24
		PM	0.66	2.91
		PM <sub>10</sub>	0.66	2.91
		PM <sub>2.5</sub>	0.66	2.91

OC5S204H	EDC Cracking	VOC	0.51	2.22

		NO <sub>x</sub>	5.64	23.47
		co	8.72	19.09
		SO <sub>2</sub>	0.06	0.24
		PM	0.66	2.91
		PM <sub>10</sub>	0.66	2.91
		PM <sub>2.5</sub>	0.66	2.91
OC5SV403	Boiler No. 1,	VOC	0.56	2.41
	FTB-401 (THROX I)	NO <sub>x</sub>	5.09	22.29
		со	4.64	20.24
		SO <sub>2</sub>	0.01	0.05
		РМ	0.85	3.74
		PM <sub>10</sub>	0.85	3.74
		PM <sub>2.5</sub>	0.85	3.74
		Cl <sub>2</sub>	0.97	4.27
		HCI	0.53	2.32
OC5SV404	Boiler No. 2, FTB-402 (THROX	voc	0.56	2.41
	II)	NO <sub>x</sub>	5.09	22.29
		со	4.64	20.24
		SO <sub>2</sub>	0.01	0.05
		PM	0.85	3.74
		PM <sub>10</sub>	0.85	3.74
		PM <sub>2.5</sub>	0.85	3.74
		Cl <sub>2</sub>	0.97	4.27
		HCI	0.53	2.32

OC5S01	Thermal Oxidizer	VOC	0.22	0.97
		NO <sub>x</sub>	0.73	3.19
		со	1.48	6.48

		SO <sub>2</sub>	1.18	5.19
		PM	0.72	3.15
		PM <sub>10</sub>	0.72	3.15
		PM <sub>2.5</sub>	0.72	3.15
		Cl <sub>2</sub>	1.88	8.23
		HCI	1.36	5.95
		NVOC	0.01	0.05
OC5S02	Thermal Oxidizer	voc	0.22	0.97
		NO <sub>x</sub>	0.73	3.19
		со	1.48	6.48
		SO <sub>2</sub>	1.18	5.19
		PM	0.72	3.15
		PM <sub>10</sub>	0.72	3.15
		PM <sub>2.5</sub>	0.72	3.15
		Cl <sub>2</sub>	1.88	8.23
		HCI	1.36	5.95
		NVOC	0.01	0.05
OC5SP296	Scrubber SP-296 is used to control	voc	0.07	0.33
	emissions from decoking of cracking	РМ	0.20	1.00
	furnaces	PM <sub>10</sub>	0.20	1.00
		PM <sub>2.5</sub>	0.20	1.00
OC5LR1	Unloading Rack	voc	0.01	0.04
OC5LR2	Loading/Unloading	voc	0.01	0.03
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OC5FU1	Fugitive Area 1 (5)	voc	0.27	1.18
		HCI	0.11	0.48
		MeCl	0.09	0.39
OC5FU2	Fugitive Area 2 (5)	voc	0.15	0.66
		HCI	0.08	0.36

		MeCl	0.01	0.04
OC5FU3	Fugitive Area 3 (5)	VOC	0.44	1.90
		HCI	0.15	0.66
		MeCl	0.04	0.19
OC5FU4	Fugitive Area 4 (5)	voc	0.78	3.43
		HCI	0.81	3.56
		MeCl	0.01	0.04
OC5FU5	Fugitive Area 5 (5)	VOC	0.37	1.60
		Cl <sub>2</sub>	0.01	0.03
		HCI	0.07	0.30
		MeCl	0.03	0.13
OC5FU6	Fugitive Area 6 (5)	VOC	0.19	0.85
		HCI	0.08	0.36
		MeCl	0.01	0.04
OC5FU7	Fugitive Area 7 (5)	voc	0.42	1.79
		HCI	0.02	0.10
OC5CT1	Cooling Tower 320	voc	0.24	1.02
OC5CT4	Cooling Tower 2320	voc	0.40	1.68
OC5V1	Fabric Filter	PM	0.04	0.01
		PM <sub>10</sub>	0.04	0.01
		PM <sub>2.5</sub>	0.04	0.01
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B15FU2	Fugitives (5)(6)	HCI	0.08	0.34
		1		1

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

0.22

0.95

VOC

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

Fugitives (5)

PM - total particulate matter, suspended in the atmosphere, including  $PM_{10}$  and  $PM_{2.5}$  - particulate matter equal to or less than 10 microns in diameter, including  $PM_{2.5}$ 

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OC9FU4

PM<sub>2.5</sub> - particulate matter equal to or less than 2.5 microns in diameter

Cl<sub>2</sub> - chlorine

HCI - hydrogen chloride MeCI - methylene chloride

- (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) Emission rates are only those associated with this plant. Previously authorized emissions from this emission source can be found on the maximum allowable emission rates table of Permit Numbers 5339 and 5661.

Date: August 24, 2016
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