EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 20686

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
SECOLATS05	Tank 174	CA	0.003	0.008
HECUIIP02	Process Heater	CO	0.12	0.38
		NOx	0.31	0.95
		PM10	0.03	0.09
		SOx	<0.01	0.02
		VOC	0.04	0.11
HECUIIP03	Process Heater	CO	0.02	0.04
		NOx	0.07	0.21
		PM10	<0.01	0.01
		SOx	<0.01	<0.01
		VOC	<0.01	0.01
FUCUIITU01	Truck Unloading	CA	<0.01	<0.01
FECUIIP04	Flare	CO	0.32	1.00
		H2S	<0.01	<0.01
		NOx	1.28	4.00
		PM10	0.05	0.14
		SOx	0.40	0.86
		VOC	0.11	0.35
		Cresols	0.05	0.15
		CA	0.02	0.05
FUCUIIP01	Process Fugitives (4)	CA	0.04	0.16
FUCUIIS01	Process Fugitives (4)	CA	0.04	0.11
FU1DU01	Process Fugitives (4)	Cresols	0.35	1.39
	No. 1 Distillation Unit			
FU2BOIL01	Process Fugitives (4)	Cresols	<0.01	<0.01

	No. 2 Boiler Area	CA	<0.01	<0.01
FU4BOLS01	Process Fugitives (4) (5)	Cresols	<0.01	0.02
	No. 4 Boiler System	CA	<0.01	0.01
		VOC	0.05	<0.01
		Cresols	<0.01	0.01
		CA	<0.01	0.01
		VOC	<0.01	<0.01

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates* lb/hr	TPY
FUBAYOU01	Process Fugitives (4) (5) Bayou Tank Farm	Cresols	0.08	0.31
		CA	0.09	0.37
		VOC	0.19	0.10
		Cresols	0.04	0.17
		CA	0.05	0.20
		VOC	0.01	<0.01
FUC09DU01	Process Fugitives (4) C-9 Distillation Unit	Cresols	0.03	0.09
		CA	0.38	1.38
FUC21DU01	Process Fugitives (4) C-21 Distillation Unit	Cresols	0.22	0.82
		CA	0.16	0.60
FUC25DU01	Process Fugitives (4) C-25 Distillation Unit	Cresols	0.22	0.93
		CA	0.11	0.44
FUC27DU01	Process Fugitives (4) C-27 Distillation Unit	VOC	0.36	1.57
FUC33DU01	Process Fugitives (4) C-33 Distillation Unit	Cresols	0.04	0.16
		CA	0.31	1.19
FUCAS1201	Process Fugitives (4) CA Storage Area 12	VOC	0.05	0.22
FUCAS1601	Process Fugitives (4) CA Storage Area 16	Cresols	0.03	0.13
		CA	0.05	0.22
FUCAS1701	Process Fugitives (4) CA Storage Area 17	Cresols	0.05	0.21
		CA	0.02	0.09

FUCAS19B01	Process Fugitives (4)	Cresols	0.06	0.24
	CA Storage Area 19B	CA	0.22	0.96
FUCAS33B01	Process Fugitives (4)	Cresols	0.16	0.70
	CA Storage Area 33B	CA	0.10	0.41
FUCAS33D01	Process Fugitives (4)	Cresols	0.03	0.11
	CA Storage Area 33D	CA	0.12	0.53
FUCAS33E01	Process Fugitives (4)	Cresols	0.05	0.21
	CA Storage Area 33E	CA	0.03	0.13
FUCAS9701	Process Fugitives (4)	Cresols	0.06	0.24
	CA Storage Area 97	CA	<0.01	<0.01
FUCLUPS01	Process Fugitives (4)	Cresols	0.04	0.10
	Cleanup Unit Storage	CA	0.03	0.06

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates* lb/hr	TPY
FUCLUPU01	Process Fugitives (4)	Cresols	0.10	0.21
	Cleanup Unit	CA	0.07	0.14
FUC02SU01	Process Fugitives (4)	Cresols	0.16	0.67
	CO2 Springing Unit	CA	0.15	0.64
FUCOLATS01	Process Fugitives (4) (5)	Cresols	<0.01	<0.01
	Carbolate Storage	CA	<0.01	<0.01
		VOC	0.11	0.31
		Cresols	<0.01	<0.01
		CA	<0.01	<0.01
		VOC	<0.01	<0.01
FUCRAS601	Process Fugitives (4)	VOC	0.14	0.63
	Crude Acid Storage Area 6			
FUCRAS801	Process Fugitives (4)	VOC	0.05	0.21
	Crude Acid Storage Area 8			
FUCRAS19A01	Process Fugitives (4)	Cresols	0.02	0.10
	Crude Acid Storage	CA	0.02	0.09
	Area 3			
FUCRUDU01	Process Fugitives (4)	VOC	0.53	2.33
	Crude Unit			
FUCSNPS01	Process Fugitives (4) (5)	Cresols	0.02	<0.01

	Caustic/Nap Oil Storage	CA	0.01	<0.01
		VOC	0.58	0.04
		Cresols	<0.01	<0.01
		CA	<0.01	<0.01
		VOC	0.04	<0.01
FUDRUM01	Process Fugitives (4)	Cresols	0.02	0.01
	Drumming Building	CA	0.02	0.01
FUEVAP01	Process Fugitives (4)	Cresols	<0.01	0.04
	Evaporators	CA	<0.01	<0.01
		VOC	0.16	0.46
FUEVFL01	Process Fugitives (4)	Cresols	<0.01	<0.01
	Evaporator Flare	CA	<0.01	<0.01
		VOC	0.03	0.08

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates* lb/hr	TPY
FUIEXU01	Process Fugitives (4)	VOC	0.33	1.46
	Ion Exchange Units			
FULAB01	Process Fugitives (4)	Cresols	<0.01	0.03
	Lab Sump	CA	<0.01	0.03
FUMPTU01	Process Fugitives (4)	Cresols	0.08	0.30
	MPT Unit	CA	<0.01	<0.01
FUNBEX01	Process Fugitives (4) (5)	Cresols	0.04	0.11
	N-Base Extraction	CA	0.03	0.07
		VOC	1.19	3.42
		Cresols	<0.01	0.01
		CA	<0.01	<0.01
		VOC	0.15	0.43
FUOXRU01	Process Fugitives (4)	Cresols	0.26	1.07
	OXR Unit	CA	0.02	0.09
FUPWNOS01	Process Fugitives (4) (5)	Cresols	0.02	0.10
	Process Water/Nap Oil	CA	0.02	0.09
	Storage	VOC	0.69	3.01
		Cresols	<0.01	<0.01
		CA	<0.01	<0.01
		VOC	0.06	0.26
FUPWS22201	Process Fugitives (4)	Cresols	<0.01	0.03
	Process Water Storage	CA	<0.01	0.03

	Tank T-222			
FUPWS22301	Process Fugitives (4) (5) Process Water Storage Tank T-223	Cresols CA	0.03 0.03	0.12 0.11
		Cresols CA	<0.01 <0.01	0.02 0.02
FURLU37A01	Process Fugitives (4) Rail Loading/Unloading Area 37A	Cresols CA	0.09 0.09	0.09 0.09
FURLU37B01	Process Fugitives (4) Rail Loading/Unloading Area 37B	Cresols CA	<0.01 <0.01	<0.01 <0.01
FURLU37C01	Process Fugitives (4) Rail Loading/Unloading Area 37C	Cresols	0.05	<0.01

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates* lb/hr	TPY
FURLU37D01	Process Fugitives (4)	Cresols	0.01	<0.01
	Rail Loading/Unloading	CA	0.01	<0.01
	Area 37D	VOC	0.02	0.08
FURSDUS01	Process Fugitives (4)	Cresols	0.03	0.13
	Residue Storage	CA	0.03	0.13
FUSAPOU01	Process Fugitives (4)	VOC	0.05	0.21
	Sulfuric Acid Polishing Unit			
FUSAS01	Process Fugitives (4)	Cresols	<0.01	<0.01
	Sulfuric Acid Storage	CA	<0.01	<0.01
FUT27501	Process Fugitives (4)	Cresols	0.01	0.05
	Tank T-275 Area	CA	0.03	0.14
FUTKFLR01	Process Fugitives (4) (5)	Cresols	<0.01	<0.01
	Tank Vent Flare	CA	<0.01	<0.01
		VOC	0.97	4.25
		Cresols	<0.01	<0.01
		CA	<0.01	<0.01
		VOC	0.04	0.16
FUTTLU2401	Process Fugitives (4)	Cresols	0.04	0.03
	Tank-Truck Loading and Unloading	CA	0.03	0.03

FUVAFU01	Process Fugitives (4) Vacuum Flash Unit	VOC	0.16	0.69
FUWELFS01	Process Fugitives (4) (5)	Cresols	<0.01	<0.01
	Disposal Well Feed	CA	<0.01	<0.01
	Storage	VOC	0.20	0.02
		Cresols	<0.01	<0.01
		CA	<0.01	<0.01
		VOC	0.01	<0.01
FUWELL01	Process Fugitives (4) (5)	Cresols	<0.01	<0.01
	Disposal Well	CA	<0.01	<0.01
		VOC	0.15	0.02
		Cresols	<0.01	<0.01
		CA	<0.01	<0.01
		VOC	0.01	<0.01
VECAS1203	Tank T-142 (9)	VOC	0.57	0.31

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates* lb/hr	TPY
VEC21DU03	Tank T-143 (9)	VOC	<0.01	0.05
VEC21DU05	Tank T-146 (9)	VOC	0.02	0.03
VEC21DU06	Tank T-147 (9)	VOC	<0.01	0.03
VEC27DU04	Tank T-351 (9)	VOC	<0.01	0.02
VEC27DU05	Tank T-352 (9)	VOC	0.42	0.03
SEC25DU03	S-25 Scrubber	Cresols	0.02	<0.01
		CA	0.01	0.01
FURLU37A01	Rail Loading A2 Area (6) Spots 5, 7, 8 and 9	VOC	2.14	0.20
VECAS33D02	Tank T-70 (6)	VOC	0.26	<0.01
VECAS33D03	Tank T-71 (6)	VOC	<0.01	0.02
VECAS33D05	Tank T-82B (6)	VOC	<0.01	<0.01
VECAS33D06	Tank T-89 (6)	VOC	<0.01	<0.01
SECAS33DO8	S-82 Scrubber	Cresols	0.02	<0.01
		CA	0.02	<0.01
VECAS1702	Tank T-37 (11)	VOC	0.13	<0.01
VECAS1703	Tank T-38 (11)	VOC	<0.01	<0.01
VECAS1704	Tank T-57 (11)	VOC	<0.01	<0.01
VECAS1705	Tank T-58 (11)	VOC	<0.01	<0.01
VECAS19810	Tank T-68 (11)	VOC	0.32	0.01
VECAS19811	Tank T-69 (11)	VOC	<0.01	0.01
VECAS1706	Tank T-86 (11)	VOC	<0.01	<0.01
VECAS1603	Tank T-151 (11)	VOC	<0.06	0.06

VECAS1604	Tank T-152 (11)	VOC	<0.12	0.03
SECAS1707	S-86 Scrubber	Cresols	0.02	<0.01
		CA	0.01	<0.01

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates* lb/hr	TPY
FUDRUM01	Drum Loading (7)	VOC	0.52	0.02
FURLU37A01	Rail Loading A1 Area (7) Spots 2 and 3	VOC	2.14	0.13
VECAS33E02	Tank T-5 (7)	VOC	0.13	0.01
VECAS33E03	Tank T-6 (7)	VOC	<0.01	0.01
VECAS33E06	Tank T-96 (7)	VOC	<0.01	0.01
SECAS33E07	S-96 Scrubber	Cresols	0.03	<0.01
		CA	0.03	<0.01
SERSDUS03	S-190 Scrubber	CA	<0.01	0.01
		VOC	<0.01	<0.01
FUTTLU2401	Tank Truck Loading (8)	VOC	1.19	0.18
FURLU37C01	Railcar Loading Vent 37C	VOC (8)	0.74	0.02
FURLU37D01	Railcar Loading Vent 37D	VOC (8)	1.30	0.05
SECAS9701	Tank T-260 (8)	VOC	0.23	0.05
SECAS9702	Tank T-261 (8)	VOC	<0.01	0.01
SECAS9702	S-260 Scrubber	Cresols	0.07	0.01
		CA	0.03	<0.01
VET27503	Tank T-17 (10)	VOC	<0.01	<0.01
VECRS19A02	Tank T-80 (10)	VOC	0.24	0.02
VECRS19A03	Tank T-81 (10)	VOC	<0.01	0.02
VET27502	Tank T-275 (10)	VOC	<0.01	0.03
SET27504	S-275 Scrubber	Cresols	<0.01	<0.01
		CA	<0.01	<0.01
VEOXRU04	Tank T-201 (12)	VOC	<0.01	<0.01
VEOXRU05	Tank T-280 (12)	VOC	<0.01	<0.01

VEOXRU06	Tank T-283 (12)	VOC	0.32	0.02
VEOXRU07	Tank T-284 (12)	VOC	<0.01	0.03

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates* lb/hr	TPY
VEOXRU08	Tank T-285 (12)	VOC	<0.01	0.03
VEOXRU09	Tank T-286 (12)	VOC	<0.01	<0.01
VEOXRU10	Tank T-287 (12)	VOC	<0.01	<0.01
VEOXRU11	Tank T-288 (12)	VOC	<0.01	<0.01
SEOXRU03	S-310 Scrubber	Cresols	0.03	<0.01
		CA	<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) CO - carbon monoxide
CA - cresylic acid
H2S - hydrogen sulfide
NOx - total oxides of nitrogen
PM10 - particulate matter less than 10 microns
SOx - sulfur oxides
VOC - volatile organic compounds as defined in General Rule 101.1
(4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
(5) These are uncontrolled process fugitive emissions prior to compliance with Special Provision No. 15.
(6) This source will be sent to Scrubber S-82 under Special Provision No. 17.
(7) This source will be sent to Scrubber S-96 under Special Provision No. 19.
(8) This source will be sent to Scrubber S-260 under Special Provision No. 21.
(9) This source will be sent to Scrubber S-25 under Special Provision No. 16.
(10) This source will be sent to Scrubber S-275 under Special Provision No. 22.
(11) This source will be sent to Scrubber S-86 under Special Provision No. 18.
(12) This source will be sent to Scrubber S-310 under Special Provision No. 23.

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

Hrs/day____ Days/week____ Weeks/year____ or Hrs/year 8,760

Dated_____