Permit Number 9582

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 (1)	Source Name (2)	Air Contaminant (3)	Emission Rates	
			lbs/hour	TPY (4)
FU-100	100 Unit Fugitives (5)	VOC	1.09	4.77
		Benzene	0.07	0.30
V-Caustic	Caustic Tanks (V-212 and V-412)	Sodium Hydroxide	0.40	0.01
V-Diesel	Diesel Storage Vessels (V52, V53, V62, and V63)	VOC Cap	0.13	0.01
V-HQ	HQ Finishing (V332, V333, and V334)	VOC Cap	0.01	0.01
	1004)	Acetone Cap	0.02	0.01
V-Sulfuric	Sulfuric Acid Tank	Sulfuric Acid Cap	0.01	0.01
V-321	Sodium Bisulfite Tank	Sodium Bisulfite	0.05	0.07
V-405A/B	PARA Storage Tanks (V405A and V405B)	VOC Cap	0.02	0.07
V-413	Peroxide Storage Tank	Hydrogen Peroxide	0.05	0.01
V-415	Sodium Sulfite Tank	Sodium Sulfide	0.02	0.01
V-715	Diphenylamine Storage Tank	VOC	0.11	0.01

BLR-20	Boiler M-526	Acetone	0.14	0.01
		СО	6.12	10.31
		NO _X	3.14	13.75
		РМ	0.57	2.51
		PM ₁₀	0.57	2.51
		PM _{2.5}	0.57	2.51
		SO ₂	0.05	0.20
		VOC	0.42	1.82
		Benzene	0.01	0.01
CT-1	Cooling Tower M-508	РМ	0.06	0.27
		PM ₁₀	0.06	0.27
		PM _{2.5}	0.04	0.16
		VOC	0.33	1.43
		Benzene	0.04	0.17
E-331	M-339 After Condenser Jet	VOC	0.05	0.20
FLR-1	Flare 1 (Normal Operations)	СО	0.04	0.20
		NOx	0.01	0.02
		SO ₂	0.01	0.01
		VOC	0.01	0.02
HQFIN	Hydroquinone Finishing Area	РМ	0.04	0.08
		PM ₁₀	0.04	0.08
		PM _{2.5}	0.04	0.08
10	Hot Oil Heater	СО	1.51	6.66
		NO _X	0.95	4.16

PM					
PM25 0.19 0.83			PM	0.19	0.83
SO2			PM ₁₀	0.19	0.83
NOC 0.07 0.28			PM _{2.5}	0.19	0.83
M-503A Emergency Pump Engine CO 0.95 0.03 NO _X 4.39 0.11 PM 0.31 0.01 PM ₁₀ 0.31 0.01 PM ₂₅ 0.31 0.01 SO ₂ 0.29 0.01 VOC 0.35 0.01 M-503B Emergency Pump Engine CO 0.95 0.03 NO _X 4.39 0.11 PM 0.31 0.01 PM 0.31 0.01 PM ₁₀ 0.31 0.01 PM ₁₀ 0.31 0.01 PM ₁₀ 0.31 0.01 PM ₂₅ 0.31 0.01 PM ₂₅ 0.31 0.01 SO ₂ 0.29 0.01 VOC 0.35 0.01 LR-9 Loading Rack VOC 0.22 0.02 LR-18 Loading Rack VOC 1.62 0.29 LR-MDIPB Loading Rack VOC 0.34 0.01 FU-200 200 Unit Fugitives			SO ₂	0.02	0.10
NO _X 4.39 0.11 PM			VOC	0.07	0.28
PM	M-503A	Emergency Pump Engine	СО	0.95	0.03
PM ₁₀			NOx	4.39	0.11
PM _{2.5}			РМ	0.31	0.01
SO2 0.29 0.01			PM ₁₀	0.31	0.01
Not			PM _{2.5}	0.31	0.01
M-503B Emergency Pump Engine CO 0.95 0.03 NOx 4.39 0.11 PM 0.31 0.01 PM₁₀ 0.31 0.01 PM₂₅ 0.31 0.01 SO₂ 0.29 0.01 VOC 0.35 0.01 LR-9 Loading Rack VOC 0.22 0.02 LR-18 Loading Rack Acetone 44.99 3.80 VOC 1.62 0.29 LR-MDIPB Loading Rack VOC 0.34 0.01 FU-200 200 Unit Fugitives (5) Acetone 0.01 0.01			SO ₂	0.29	0.01
NO _X 4.39 0.11			VOC	0.35	0.01
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	M-503B	Emergency Pump Engine	СО	0.95	0.03
PM ₁₀			NOx	4.39	0.11
PM _{2.5} 0.31 0.01 SO ₂ 0.29 0.01 VOC 0.35 0.01 LR-9 Loading Rack VOC 0.22 0.02 LR-18 Loading Rack Acetone 44.99 3.80 VOC 1.62 0.29 LR-MDIPB Loading Rack VOC 0.34 0.01 FU-200 200 Unit Fugitives (5) Acetone 0.01 0.01			РМ	0.31	0.01
SO ₂			PM ₁₀	0.31	0.01
LR-9 Loading Rack VOC 0.22 0.02 LR-18 Loading Rack Acetone 44.99 3.80 VOC 1.62 0.29 LR-MDIPB Loading Rack VOC 0.34 0.01 FU-200 200 Unit Fugitives (5) Acetone 0.01 0.01			PM _{2.5}	0.31	0.01
LR-9 Loading Rack VOC 0.22 0.02 LR-18 Loading Rack Acetone 44.99 3.80 VOC 1.62 0.29 LR-MDIPB Loading Rack VOC 0.34 0.01 FU-200 200 Unit Fugitives (5) Acetone 0.01 0.01			SO ₂	0.29	0.01
LR-18 Loading Rack Acetone 44.99 3.80 VOC 1.62 0.29 LR-MDIPB Loading Rack VOC 0.34 0.01 FU-200 200 Unit Fugitives (5) Acetone 0.01 0.01			VOC	0.35	0.01
VOC 1.62 0.29 LR-MDIPB Loading Rack VOC 0.34 0.01 FU-200 200 Unit Fugitives (5) Acetone 0.01 0.01	LR-9	Loading Rack	VOC	0.22	0.02
LR-MDIPB Loading Rack VOC 0.34 0.01 FU-200 200 Unit Fugitives (5) Acetone 0.01 0.01	LR-18	Loading Rack	Acetone	44.99	3.80
FU-200 200 Unit Fugitives (5) Acetone 0.01 0.01			VOC	1.62	0.29
	LR-MDIPB	Loading Rack	VOC	0.34	0.01
VOC 0.63 2.75	FU-200	200 Unit Fugitives (5)	Acetone	0.01	0.01
			VOC	0.63	2.75
Benzene 0.12 0.51			Benzene	0.12	0.51

FU-300	300 Unit Fugitives (5)	Acetone	0.31	1.37
		VOC	0.99	4.34
		Benzene	0.08	0.34
FU-400	400 Unit Fugitives (5)	Acetone	0.11	0.47
		VOC	0.38	1.67
		Benzene	0.01	0.03
FU-700	700 Unit Fugitives (5)	VOC	0.13	0.57
FU-WW	Wastewater Fugitives (5)	Acetone	0.01	0.01
		VOC	0.10	0.43
V-LAB	Laboratory Vents (V-54, V-55, V-56, and V-57)	VOC Cap	0.24	0.05
Maintenance, Sta	rtup, and Shutdown (MSS) Emissions	-	1	- 1
BLR-20	Boiler M-526 (MSS Activities)	VOC	0.01	0.01
FLR-1	Flare 1 (MSS Activities)	Acetone	5.16	0.46
		СО	8.33	18.31
		NO _X	0.97	2.13
		SO ₂	0.10	0.45
		VOC	5.51	2.69
MSS-CAP	Total Uncontrolled Cap	VOC	20.42	0.57
Site-wide Limits	1		l	
SITEWIDE	Site-wide Sources	Individual HAP Total HAPs		< 10.00 < 25.00

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

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

(3) CO - carbon monoxide

HAP - hazardous air pollutant as listed in § 112(b) of the Federal Clean Air Act or Title 40 Code of

Federal Regulations Part 63, Subpart C

NO_X - total oxides of nitrogen

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

SO₂ - sulfur dioxide

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

(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:	December 16, 2020