

Emission Sources - Maximum Allowable Emission Rates

Permit Number 161511

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)
LR-6	Loading Racks	VOC	<0.01	4.35
		HAPs	<0.01	0.01
EG-1	Emergency Generator 1	PM	0.18	0.04
		PM ₁₀	0.18	0.04
		PM _{2.5}	0.18	0.04
		SO ₂	1.08	0.27
		NOx	27.20	6.80
		VOC	0.18	0.05
		CO	3.54	0.89
		HAPs	0.01	<0.01
EG-2	Emergency Generator 2	PM	0.18	0.04
		PM ₁₀	0.18	0.04
		PM _{2.5}	0.18	0.04
		SO ₂	1.08	0.27
		NOx	27.20	6.80
		VOC	0.18	0.05
		CO	3.54	0.89
		HAPs	0.01	<0.01
CT-1	Cooling Tower 1	PM	0.07	0.35
		PM ₁₀	0.04	0.18
		PM _{2.5}	<0.01	<0.01
CT-2	Cooling Tower 2	PM	0.08	0.35
		PM ₁₀	0.04	0.18
		PM _{2.5}	<0.01	<0.01

Emission Sources - Maximum Allowable Emission Rates

MH14	Material Handling at Conveyor - Fugitive	PM	0.11	0.46
		PM ₁₀	0.11	0.46
		PM _{2.5}	0.11	0.46
DC1-A	Shred and Pelletizer Collector A	PM	0.39	1.69
		PM ₁₀	0.39	1.69
		PM _{2.5}	0.39	1.69
DC1-B	Shred and Pelletizer Collector B	PM	0.39	1.69
		PM ₁₀	0.39	1.69
		PM _{2.5}	0.39	1.69
DC1-C	Shred and Pelletizer Collector C	PM	0.39	1.69
		PM ₁₀	0.39	1.69
		PM _{2.5}	0.39	1.69
DC1-D	Shred and Pelletizer Collector D	PM	0.39	1.69
		PM ₁₀	0.39	1.69
		PM _{2.5}	0.39	1.69
DRDC-A	Dryer Dust Collector A	PM	0.05	0.23
		PM ₁₀	0.01	0.06
		PM _{2.5}	<0.01	0.01
DRDC-B	Dryer Dust Collector B	PM	0.05	0.23
		PM ₁₀	0.01	0.06
		PM _{2.5}	<0.01	0.01
DRDC-C	Dryer Dust Collector C	PM	0.05	0.23
		PM ₁₀	0.01	0.06
		PM _{2.5}	<0.01	0.01
DRDC-D	Dryer Dust Collector D	PM	0.05	0.23
		PM ₁₀	0.01	0.06
		PM _{2.5}	<0.01	0.01
DC-2A	Extruder Dust Collector A	PM	0.05	0.21
		PM ₁₀	0.05	0.21

Emission Sources - Maximum Allowable Emission Rates

		PM _{2.5}	0.05	0.21
DC-2B	Extruder Dust Collector B	PM	0.05	0.21
		PM ₁₀	0.05	0.21
		PM _{2.5}	0.05	0.21
SCR-1A	SCR Exhaust after using NC Gas as fuel source	PM	2.23	9.78
		PM ₁₀	2.23	9.78
		PM _{2.5}	2.23	9.78
		SO ₂	0.18	0.77
		NO _x	2.93	12.84
		VOC	2.40	10.52
		CO	3.61	15.80
		NH ₃	<0.01	0.01
		HAPs	0.84	3.66
SCR-2A	SCR Exhaust after using NC Gas as fuel source	PM	2.23	9.78
		PM ₁₀	2.23	9.78
		PM _{2.5}	2.23	9.78
		SO ₂	0.18	0.77
		NO _x	2.93	12.84
		VOC	2.40	10.52
		CO	3.61	15.80
		NH ₃	<0.01	0.01
		HAPs	0.84	3.66
FL-1	Emergency Flare 1	SO ₂	<0.01	0.03
		NO _x	0.12	0.52
		VOC	0.01	0.03
		CO	0.10	0.44
		HAPs	<0.01	0.01
FL-2	Emergency Flare 2	SO ₂	<0.01	0.03
		NO _x	0.12	0.52

Emission Sources - Maximum Allowable Emission Rates

		VOC	0.01	0.03
		CO	0.10	0.44
		HAPs	<0.01	0.01
BOIL-1	Boiler	PM	0.03	0.14
		PM ₁₀	0.03	0.14
		PM _{2.5}	0.03	0.14
		SO ₂	<0.01	0.01
		NOx	0.43	1.89
		VOC	0.02	0.10
		CO	0.36	1.59
		HAPs	0.01	0.04
DFO-1	Direct Fire Oxidizer NG emissions	PM	0.01	0.03
		PM ₁₀	0.01	0.03
		PM _{2.5}	0.01	0.03
		SO ₂	<0.01	<0.01
		NOx	0.10	0.42
		VOC	0.01	0.02
		CO	0.08	0.35
		HAPs	<0.01	0.01
HTFT-1	Hydrotreater Feed Tank 1	VOC	0.02	0.01
HTFT-2	Hydrotreater Feed Tank 2	VOC	0.02	0.01
HTFT-3	Hydrotreater Feed Tank 3	VOC	0.02	0.01
HTFT-4	Hydrotreater Feed Tank 4	VOC	0.02	0.01
RRT-1	Rerun Tank 1	VOC	0.01	0.03
RRT-2	Rerun Tank 2	VOC	0.01	0.03
FFFT-1	Fractionater Feed Tank 1	VOC	0.03	0.12
FFFT-2	Fractionater Feed Tank 2	VOC	0.03	0.12

Emission Sources - Maximum Allowable Emission Rates

FFFT-3	Fractionater Feed Tank 3	VOC	0.03	0.12
FFFT-4	Fractionater Feed Tank 4	VOC	0.03	0.12
WEFT-1	Wax Extraction Feed Tank	VOC	0.06	0.23
NAPT-1	Naphtha Storage Tank 1	VOC	0.23	0.84
NAPT-2	Naphtha Storage Tank 2	VOC	0.23	0.84
NAPT-3	Naphtha Storage Tank 3	VOC	0.23	0.84
NAPT-4	Naphtha Storage Tank 4	VOC	0.23	0.84
CDT-1	Certified Distillate Tank 1 (Diesel)	VOC	0.06	0.20
CDT-2	Certified Distillate Tank 2 (Diesel)	VOC	0.06	0.20
CDT-3	Certified Distillate Tank 3 (Diesel)	VOC	0.06	0.20
CDT-4	Certified Distillate Tank 4 (Diesel)	VOC	0.06	0.20
CDT-5	Certified Distillate Tank 5 (Diesel)	VOC	0.06	0.20
CDT-6	Certified Distillate Tank 6 (Diesel)	VOC	0.06	0.20
WOT-1	Wax Oil Tank	VOC	0.03	0.10
WAXT-1	Certified Wax Tank	VOC	0.11	0.38
MEKT-1	MEK Bulk Storage Tank	VOC	0.02	0.08
TOLT-1	Toluene Bulk Storage Tank	VOC	0.01	0.03
EQUIPLEAK	Equipment Leaks - Fugitive	VOC	0.42	1.83
		HAPs	0.01	0.01
LOADFUG	Loading Rack Fugitive Emissions	VOC	0.92	4.04
		HAPs	0.01	0.01
TANK-MSS	ASTs painting	PM	0.33	<0.01
		PM ₁₀	0.03	<0.01
		PM _{2.5}	<0.01	<0.01

Emission Sources - Maximum Allowable Emission Rates

		VOC	13.60	0.12
		HAPs	3.47	0.03
TANK-DEGAS	Degassing of ASTs	PM	0.73	0.03
		PM ₁₀	0.73	0.03
		PM _{2.5}	0.73	0.03
		NOx	10.75	0.52
		VOC	0.27	0.01
		CO	19.50	0.94
		HAPs	<0.01	<0.01
PYRO-MSS1	Pyrolysis Units Startup	NOx	<0.01	<0.01
		VOC	2.00	0.01
		CO	0.81	<0.01
		HAPs	0.02	<0.01
PYRO-MSS2	Cleaning of Pyrolysis Units	PM	<0.01	<0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<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) 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
 NH₃ - ammonia
 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
- (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: April 13, 2021