Emission Sources - Maximum Allowable Emission Rates

Permit Number 103832, N166

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

EPN (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lb/hour	TPY (4)
40-36-1112	Catalyst Activator Heater #2	VOC	0.05	0.14
		CO	0.82	2.17
		NO_x	0.40	1.05
		$PM_{2.5}$	0.07	0.2o
		PM_{10}	0.07	0.2o
		PM	0.07	0.20
		SO_2	0.14	0.37
40-36-1112	Catalyst Activator Heater #2 MSS	CO	4.24	(7)
		NO_x	0.65	(7)
40-36-1113	Catalyst Activator Heater #1	VOC	0.05	0.14
		CO	0.82	2.17
		NOx	0.40	1.05
		PM2.5	0.07	0.02
		PM10	0.07	0.02
		PM	0.07	0.02
		SO2	0.14	0.37
40-36-1113	Catalyst Activator Heater #1 MSS	CO	4.24	(7)
		NOx	0.65	(7)

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40-35-1014	Unit 40 HEPA Activator Filter	VOC	2.50	0.30
		PM2.5	0.01	0.05
		PM10	0.01	0.05
		PM	0.01	0.05
40-35-1114	Unit 41 HEPA Activator Filter	VOC	2.50	0.30
		PM2.5	0.01	0.05
		PM10	0.01	0.05
		PM	0.01	0.05
40-35-1018	Unit 41 Catalyst Charge Filter	PM2.5	0.01	<0.01
		PM10	0.01	<0.01
		PM	0.01	<0.01
40-35-1118	Unit 40 Catalyst Charge Filter	PM2.5	0.01	<0.01
		PM10	0.01	<0.01
		PM	0.01	<0.01
41-35-6201	Unit 41 Extruder Feed Hopper Vent Filter	VOC	0.60	(5)
		PM2.5	0.02	0.08
		PM10	0.02	0.08
		PM	0.02	0.08
40-35-6201	Unit 40 Extruder Feed Hopper Vent Filter	VOC	3.00	(5)
		PM2.5	0.02	0.08
		PM10	0.02	0.08
		PM	0.02	0.08
41-35-6310	Unit 41 Scalping Screen Surge Hopper Filter	PM2.5	0.02	0.08
		PM10	0.02	0.08
		PM	0.02	0.08

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40-35-6310	Unit 40 Scalping Screen Surge Hopper Filter	PM2.5	0.02	0.08
		PM10	0.02	0.08
		PM	0.02	0.08
41-25-6301	Unit 41 Pellet Dewatering Dryer	VOC	6.00	(5)
40-25-6301	Unit 40 Pellet Dewatering Dryer	VOC	12.00	(5)
41-19-8040	Unit 41 Loadout Railcar Filters	VOC	3.00	(5)
		PM2.5	0.02	0.08
		PM10	0.02	0.08
		PM	0.02	0.08
40-19-8040	Unit 40 Loadout Railcar Filters	VOC	6.00	(5)
		PM2.5	0.02	0.08
		PM10	0.02	0.08
		PM	0.02	0.08
41-35-8011	Unit 41 Loadout Storage Silo Filters	VOC	3.00	(5)
		PM2.5	.01	.05
		PM10	.01	.05
		PM	.01	.05
40-35-8011	Unit 4o Loadout Storage Silo Filters	VOC	6.00	(5)
		PM2.5	.01	.05
		PM10	.01	.05
		PM	.01	.05
PVOC-CAP	Pellet VOC Cap	VOC	--	39.86
MSS-EQUIP	Equipment Opening MSS	VOC	4.98	0.25
MSS-MISC	Miscellaneous MSS	VOC	1.00	1.33
MSS-LOAD	Waste Loading to	VOC	1.93	0.01

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	Trucks			
MSS-PM	Filter Replacement and Reactor Leg MSS	PM2.5	<0.01	<0.01
		PM10	0.06	<0.01
		PM	0.13	0.11
42-97-9610	Flare	VOC	252.86	25.00
		CO	307.74	56.24
		NOx	54.04	11.04
		SO2	8.19	<0.01
42-97-9820	Wastewater API Separator	VOC	7.48	0.94
TK-01	Locomotive Engine Tank	VOC	0.49	<0.01
42-97-9820	Fresh 1-Hexene Tank	VOC	0.35	0.91
42-97-9820	Fresh 1-Hexene Tank	VOC	0.35	0.89
DG-01	Degreaser 1	VOC	0.03	0.03
DG-02	Degreaser 2	VOC	0.03	0.03
DG-03	Degreaser 3	VOC	0.03	0.03
SAND-01	Rail Repair Sandblasting	PM_{10}	0.03	<0.01
		$PM_{2.5}$	0.03	<0.01
		PM	0.23	<0.01
42-05-9201	Cooling Tower	VOC	0.84	1.58
		PM2.5	0.87	3.82
		PM10	3.05	13.38
		PM	3.05	13.38
FUG-01	Fugitive Emissions (6)	VOC	4.63	20.29

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EMG-ENG A/B/C	Emergency Generator Engine (8)	VOC	0.71	0.02
		CO	5.79	0.15
		NOx	0.87	0.26
		PM2.5	0.33	<0.01
		PM10	0.33	<0.01
		PM	0.33	<0.01
		SO2	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
SO_2 - sulfur dioxide
PM - total particulate matter, suspended in the atmosphere, including PM_{10} and $PM_{2.5}$, as represented
PM_{10} - 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 moNO_xide
SO_x - sulfur oxides

(4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.

(5) Annual VOC emissions for this source are authorized under the Pellet VOC Cap (EPN PVOC-CAP)

(6) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.

(7) MSS annual emissions included in routine.

(8) Up to 3 emergency engines may be authorized as long as the total does not exceed 750 MW.

Date: August 8, 2013