Emission Sources - Maximum Allowable Emission Rates

Permit Number 95145

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)
154-STK	Process Boiler 154	VOC	0.15	0.68
		VOC (6)	0.21	0.68
		CO	< 0.01	0.04
		SO_2	0.02	0.10
		NO_X	1.60	7.01
		PM_{10}	0.22	1.31
		$PM_{2.5}$	0.07	1.31
155-STK	Process Boiler 155	VOC	0.17	0.74
		VOC (6)	0.22	0.74
		CO	< 0.01	< 0.01
		SO_2	0.02	0.10
		NO_X	1.68	7.36
		PM_{10}	0.22	1.31
		$PM_{2.5}$	0.07	1.31
156-STK	Process Boiler 156	VOC	0.14	0.59
		VOC (6)	0.19	0.59
		CO	< 0.01	0.04
		SO_2	0.02	0.09
		NO_X	0.96	4.19

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		PM_{10}	0.18	1.08
		$PM_{2.5}$	0.06	1.08
BLR-MSS	MSS Emissions from Process Boilers 154, 155, and156	VOC	0.08	< 0.01
		VOC (6)	0.09	< 0.01
CECO	CECO Stack (Wet Scrubber)	SO_2	0.01	0.06
		PM_{10}	< 0.01	< 0.01
		$PM_{2.5}$	< 0.01	< 0.01
		H_2SO_4	0.19	0.82
CT-1	Cooling Tower	VOC	0.06	0.26
		PM_{10}	0.52	2.30
		$PM_{2.5}$	0.52	2.30
HIBAY-FUG	Hi Bay Dust Collection System	PM_{10}	1.11	4.88
		$PM_{2.5}$	0.39	1.71
PROCESS-FUG	Process Fugitives	VOC (5)	0.58	2.53
DIESELTK1	Diesel Storage Tank 1	VOC	0.03	< 0.01
DIESELTK2	Diesel Storage Tank 2	VOC	0.03	< 0.01
GASOLINETK	Gasoline Storage Tank	VOC	8.14	0.28
DUST-01	Clay Silo	PM_{10}	0.06	0.28
		$PM_{2.5}$	0.06	0.28
DUST-02	Bleaching Earth Silo	PM_{10}	0.02	0.08
		$PM_{2.5}$	0.02	0.08
DUST-03	MES Grinder Dust Collector	PM_{10}	0.08	0.34
		$PM_{2.5}$	0.08	0.34
SOLIDS-FUG	Bulk Solids Handling	PM_{10}	1.32	0.07

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		$PM_{2.5}$	1.32	0.07
TS-101	Biodiesel Tank	VOC	< 0.01	< 0.01
TS-102	Biodiesel Tank	VOC	< 0.01	< 0.01
TS-103	Palm Stearin Tank	VOC	0.48	0.86
TS-104	Palm Stearin Tank	VOC	0.48	0.86
TF-114	AES Tank	VOC	4.32	0.52
		VOC (6)	2.82	0.34
TF-115	Deacidified Oil Tank	VOC	0.11	0.48
TF-118	PKO Amide Tank 1	VOC	0.23	0.27
TF-121	ME C-16/18 Tank	VOC	0.02	0.13
TF-127	Glycerine Water Tank	VOC	0.05	0.12
TF-128	Crude Glycerine Tank	VOC	0.06	0.07
TF-129	Glycerine Tank 1	VOC	0.09	0.03
TF-129A	Glycerine Tank 1	VOC	0.09	0.03
TF-130	Glycerine Tank 2	VOC	0.06	0.02
TF-131	Glycerine Tank 1	VOC	0.09	0.03
TF-142	AES Tank	VOC	0.43	0.39
		VOC (6)	0.28	0.26
TF-220	Biodiesel Tank	VOC	< 0.01	< 0.01
TF-116	C-16 Hydrogenated Tank	VOC	< 0.01	< 0.01
TF-117	Deacidified Oil Tank	VOC	0.11	0.48
TF-119	C-16 Unhydrogenated Tank	VOC	0.02	0.05
TF-122	ME Hydrogenated C16 Tank	VOC	< 0.01	< 0.01
TF-123	ME C-16/18 Tank	VOC	0.02	0.14

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TF-125	Wastewater Tank	VOC	0.07	0.04
TF-126	Wastewater Tank	VOC	0.07	0.04
TF-132	Fatty Acid Tank	VOC	1.08	0.14
TF-143	AES Tank	VOC	0.42	0.63
		VOC (6)	0.27	0.41
TF-145	PKO Amide Tank 2	VOC	0.20	0.32
TANKS-CAP	Storage Tanks (7)	VOC	6.76	5.16
		VOC (6)	3.38	4.15
PRTMT-01	ME Pretreatment Vacuum Seal Pot	VOC	< 0.01	< 0.01
DEACID-01	ME Deacidification Vacuum Seal Pot Exhaust	VOC	< 0.01	< 0.01
DISTILL-01	ME Distillation Flame Arrestor Vent	VOC	< 0.01	< 0.01
GLYCERIN-01	Glycerin Distillation Vacuum Disengaging Pot	VOC	< 0.01	< 0.01
GLYCERIN-02	Glycerin Evaporator Vacuum Disengaging Pot	VOC	< 0.01	< 0.01
SLF-TNK	Liquid Sulfur Tank	H_2S	< 0.01	< 0.01
WW-FUG	Wastewater Fugitives	VOC	0.01	0.01
SLF-BRNMSS	MSS Emissions from Sulfur Burner Preheater	VOC	0.03	< 0.01
		CO	0.41	0.02
		SO_2	< 0.01	< 0.01
		NO_X	0.49	0.02
		PM_{10}	0.04	< 0.01
		$PM_{2.5}$	0.04	< 0.01
MSS-FUG	MSS Emissions	VOC	13.99	0.08
		$PM_{2.5}$	1.21	0.01

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		PM_{10}	1.21	0.01
Permit by rule (PBR) sources incorporated by reference. Sources remain authorized by the PBR(s) as listed below:				
30 TAC §106.183				
ME CROWN	ME Column Boiler	VOC	0.03	0.12
		CO	< 0.01	0.01
		SO_2	< 0.01	0.01
		NO_X	0.42	1.84
		PM_{10}	0.03	0.13
		$PM_{2.5}$	< 0.01	0.04
UNIT 2-STK	Unit 2 Stack	VOC	0.01	0.04
		CO	< 0.01	< 0.01
		SO_2	< 0.01	0.01
		NO_X	0.12	0.54
		PM_{10}	0.01	0.05
		$PM_{2.5}$	< 0.01	0.02
UNIT 5-STK	Unit 5 Stack	VOC	0.03	0.14
		CO	< 0.01	0.01
		SO_2	< 0.01	0.02
		NO_X	0.43	1.87
		PM_{10}	0.03	0.14
		$PM_{2.5}$	0.01	0.05
30 TAC §106.511 and §106.512				
GEN-01	Natural Gas Fired Emergency Generator	VOC	0.18	< 0.01
		CO	0.59	0.02

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		SO_2	< 0.01	< 0.01
		NO_X	4.88	0.13
		PM_{10}	0.06	< 0.01
		$PM_{2.5}$	0.06	< 0.01
GEN-02	Diesel Fired Emergency Generator	VOC	0.03	< 0.01
		CO	0.09	< 0.01
		SO_2	0.03	< 0.01
		NO_X	0.42	0.01
		PM_{10}	0.29	< 0.01
		$PM_{2.5}$	0.29	< 0.01
FW-PUMP	Fire Water Pumps	VOC	2.87	0.07
		CO	0.05	< 0.01
		SO_2	0.02	< 0.01
		NO_X	35.19	0.91
		PM_{10}	0.02	< 0.01
		$PM_{2.5}$	0.02	< 0.01

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(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) Exempt Solvent - Those carbon compounds or mixtures of carbon compounds used as solvents which have been excluded from the definition of volatile organic compound.
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
NO_x - total oxides of nitrogen
SO_2 - sulfur dioxide
H_2S - hydrogen sulfide
H_2SO_4 - sulfuric acid
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 monoxide
(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) Applicable limits after tanks TF-114, TF-142, and TF-143 are routed to the process boilers
(7) The cap includes Tanks TS-101, TS-102, TS-103, TS-104, TF-114, TF-115, TF-118, TF-121, TF-127, TF-128, TF-129, TF-129A, TF-130, TF-131, TF-142, TF-220, TF-116, TF-117, TF-119, TF-122, TF-123, TF-125, TF-126, TF-132, TF-143, and TF-145.

Date: _____