Emission Sources - Maximum Allowable Emission Rates

Permit Number 158579

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)
RECEIVNG01	CaC_2 Delivery Receiving Area	PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
EQUIPLEAK1	Northwest Generator Equipment Fugitives	VOC	0.05	0.22
		H_2S	<0.01	<0.01
		NH_3	<0.01	<0.01
		HAPs	<0.01	<0.01
EQUIPLEAK2	Southwest Generator Equipment Fugitives	VOC	0.05	0.22
		H_2S	<0.01	<0.01
		NH_3	<0.01	<0.01
		HAPs	<0.01	<0.01
EQUIPLEAK3	East Generator Equipment Fugitives	VOC	0.05	0.22
		H_2S	<0.01	<0.01
		NH_3	<0.01	<0.01
		HAPs	<0.01	<0.01
EQUIPLEAK4	Purified C_2H_2 Equipment Fugitives	VOC	0.56	2.44
NW PURGE	C_2H_2 Northwest Generator MSS	VOC	20.00	-
		H_2S	<0.01	-
		NH_3	<0.01	-
		HAPs	<0.01	-
SW PURGE	C_2H_2 Southwest Generator MSS	VOC	20.00	-
		H_2S	<0.01	-
		NH_3	<0.01	-
		HAPs	<0.01	-

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
E PURGE	C_2H_2 East Generator MSS	VOC	20.00	-
		H_2S	<0.01	-
		NH_3	<0.01	-
		HAPs	<0.01	-
GENPURGECAP	Northwest, Southwest, and East Generator Purge Annual Cap	VOC	-	0.30
		NH_3	-	<0.01
		H_2S	-	<0.01
		HAPs	-	<0.01
LIME SUMP	Lime Sump	VOC	4.75	7.9
		NH_3	<0.01	<0.01
		H_2S	<0.01	<0.01
		HAPs	<0.01	<0.01
SPLYLINES1	C_2H_2 Service Lines	VOC	1.89	8.3
		HAPs	0.05	0.24
		Exempt Solvent	0.05	0.24
COMPRESRS1	C_2H_2 Compressor 1	VOC	0.47	2.08
		HAPs	0.04	0.18
		Exempt Solvent	0.04	0.18
COMPRESRS2	C_2H_2 Compressor 2	VOC	0.47	2.08
		HAPS	0.04	0.18
		Exempt Solvent	0.04	0.18
COMPRESSRS1-2	C_2H_2 Compressors 1 and 2 Combined Emissions Cap	VOC	0.47	2.08
		HAPs	0.04	0.18
		Exempt Solvent	0.04	0.18
COMPRESRS1	C_2H_2 Compressor 1 MSS	VOC	3.62	0.02
		HAPs	0.30	<0.01
		Exempt Solvent	0.30	<0.01

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
COMPRESRS2	C_2H_2 Compressor 2 MSS	VOC	3.62	0.02
		HAPs	0.30	<0.01
		Exempt Solvent	0.30	<0.01
COMPRESSRS1-2	C_2H_2 Compressors 1 and 2 Combined MSS Emissions Cap	VOC	3.62	0.02
		HAPs	0.30	<0.01
		Exempt Solvent	0.30	<0.01
LIMELOADER	Lime Loading	PM	0.27	0.08
		PM_{10}	0.13	0.04
		$PM_{2.5}$	0.02	<0.01
18FA1-3	18” Flame Arrestor MSS (20 Purges/Yr)	VOC	4.70	0.05
36FA1-3	36” Flame Arrestor MSS (20 Purges/Yr)	VOC	19.62	0.20
SHOTBLST01	“ADCO Systems” Shot Blaster	PM	0.43	1.25
		PM_{10}	0.37	1.08
		$PM_{2.5}$	0.34	0.99
		HAPs	<0.01	0.02
SHOTBLST02	“Viking” Shot Blaster	PM	0.06	0.09
		PM_{10}	0.06	0.08
		$PM_{2.5}$	0.05	0.07
		HAPs	<0.01	<0.01
SHOTBLST03	“LS Industries” Shot Blaster	PM	0.09	0.13
		PM_{10}	0.07	0.11
		$PM_{2.5}$	0.07	0.10
		HAPs	<0.01	<0.01
PRIME01	Primer Booth	VOC	23.77	8.70
		PM	0.14	0.05
		PM_{10}	0.09	0.03

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
		$PM_{2.5}$	0.09	0.03
		HAPs	<0.01	<0.01
		NH_3	0.99	0.36
TOPCOAT01	Topcoat Booth	VOC	23.05	8.77
		PM	0.17	0.09
		PM_{10}	0.11	0.06
		$PM_{2.5}$	0.10	0.06
		HAPs	0.03	0.03
		NH_3	0.96	0.79
SPRAY_CANS	Spray Painting	VOC	0.64	0.92
		PM	0.89	0.54
		PM_{10}	0.85	0.52
		$PM_{2.5}$	0.82	0.50
		HAPs	0.31	0.53
		Exempt Solvent	0.40	0.44
LLSERVICE1	DMF Service Lines	VOC	0.01	0.05
		HAPs	0.01	0.05
LLSERVICE2	Acetone Service Lines	Exempt Solvent	0.02	0.08
C2H2FILL1	Western Filling Area 1	VOC	<0.01	<0.01
		HAPs	<0.01	<0.01
		Exempt Solvent	<0.01	<0.01
C2H2FILL2	Western Filling Area 2	VOC	<0.01	<0.01
		HAPs	<0.01	<0.01
		Exempt Solvent	<0.01	<0.01
C2H2FILL3	MC&B Filling Area	VOC	<0.01	<0.01
		HAPs	<0.01	<0.01
		Exempt Solvent	<0.01	<0.01

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
C2H2FILL4	Area 1 and 2 Filling	VOC	<0.01	<0.01
		HAPs	<0.01	<0.01
		Exempt Solvent	<0.01	<0.01
C2H2FILL5	Area 3 Filling	VOC	<0.01	<0.01
		HAPs	<0.01	<0.01
		Exempt Solvent	<0.01	<0.01
LPGFILL1	LPG Cylinder Filling Area	VOC	0.08	0.33
TANKYARD	Propylene Tank Yard	VOC	36.85	0.59
TRAILERS01	C_2H_2 Trailer Connections 1	VOC	0.09	-
		HAPs	<0.01	-
		Exempt Solvents	<0.01	-
TRAILERS02	C_2H_2 Trailer Connections 2	VOC	0.1	-
		HAPs	<0.01	-
		Exempt Solvents	<0.01	-
TRAILERCAP	C_2H_2 Trailer Annual Cap	VOC	-	0.54
		HAPs	-	0.05
		Exempt Solvents	-	0.05
CYLVENT01	Western 2 Discharge Area	VOC	0.90	3.94
		HAPs	0.07	0.33
		Exempt Solvents	0.07	0.33
CYLVENT02	MC&B Cylinder Residual Venting	VOC	0.90	3.94
		HAPs	0.07	0.33
		Exempt Solvents	0.07	0.33
CYLVENT03	Area 1 and 2 Cylinder Residual Venting	VOC	0.90	3.94
		HAPs	0.07	0.33
		Exempt Solvents	0.07	0.33

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
CYLVENT04	Area 3 Cylinder Residual Venting	VOC	0.90	3.94
		HAPs	0.07	0.33
		Exempt Solvents	0.07	0.33
DMFAST1	DMF Storage Tank	VOC	1.58	0.09
		HAPs	1.58	0.09
ACEAST	Acetone Storage Tank	Exempt Solvents	87.18	0.25
ACID1	Fresh Sulfuric Acid Handling Equipment	H_2SO_4	<0.01	0.02
ACID2	Spent Sulfuric Acid Handling Equipment	VOC	<0.01	0.02
		H_2SO_4	0.06	0.24
CYLVENT05	N_2O Cylinder Residual Venting	N_2O	14.82	11.63

(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
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 monoxide
HAPSs - 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
H_2S - hydrogen sulfide
NH_3 - ammonia
N_2O - nitrous oxide
(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: June 12, 2020