Permit Number 6289 and PSDTX76M8

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 Name (3)	Emission Rates	
			lbs/hour	TPY (4)
Acrylonitrile Production U These sources are related				
S-25	SO₂ Storage Tank	SO ₂	0.09	0.38
BDS-5	Barge Dock Scrubber	VOC	1.05	0.72
		Acetone	0.05	0.01
FG-AN-III	Fugitives (5)	NH ₃	0.97	4.26
		VOC	6.28	27.49
		SO ₂	0.04	0.16
		СО	0.01	0.02
FG-1	Cooling Tower	NH ₃	1.58	11.03
		VOC	1.14	7.96
		Acetone	0.04	0.27
		PM	0.20	1.39
		PM ₁₀	0.20	1.39
		PM _{2.5}	0.20	1.39
FL-G14	CB and I Ammonia Flare	NH ₃	16.56	0.16
		СО	7.98	3.15
		NO _x	9.31	0.84
		SO ₂	0.06	0.26
FL-G32	CB and I Propylene Flare	со	2.47	2.17
		NO _x	1.24	0.26
		VOC	3.89	0.10
		SO ₂	0.01	0.06
FL-G33	Barge Dock Ammonia	NH ₃	0.10	0.01
	Flare	со	0.24	0.85

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		NO _x	0.19	0.26
		SO ₂	0.06	0.22
FL-G34	Barge Dock Propylene	СО	2.04	0.80
	Flare	NO _x	0.40	0.10
		SO ₂	0.05	0.20
		voc	2.77	0.31
FL-G4	Process Flare	со	46.48	106.95
	All routine operations	NO _x	10.61	21.28
		SO ₂	1.15	4.59
		voc	91.57	23.86
FL-G4	Process Flare	со	18.21	2.84
	MSS activities	NO _x	3.53	0.55
		voc	88.84	13.86
FL-G4A	Ammonia Flare	NH ₃	0.92	0.13
		со	4.13	2.22
		NO _x	1.32	0.34
		SO ₂	0.11	0.07
FL-G5	Hydrogen Cyanide	со	5.09	8.11
	(HCN) Flare	NO _x	1.14	3.31
		SO ₂	0.33	1.04
		VOC	2.60	11.39
G-2	Quench Water Clarifier	VOC	1.25	0.08
	Scrubber	Acetone	0.01	0.01
H-4A and B	AOGIB No. 1 and No.	NH ₃		17.80
	2 Absorber Off-Gas Incinerator/Boiler No. 1	СО		131.00
	and No. 2 Combined Annual	NO _x		630.80
	Limits	PM		18.60
		PM ₁₀		18.60
		PM _{2.5}		18.60

		SO ₂		7.60
		VOC		24.97
H-4A and B	AOGIB No. 1 and No.	NH ₃	2.03	
	2 Absorber Off-Gas Incinerator/Boiler No. 1	СО	105.0	
	and No. 2 Maximum hourly rate	NO _x	150.0	
	each	РМ	2.10	
		PM ₁₀	2.10	
		PM _{2.5}	2.10	
		SO ₂	0.90	
		VOC	9.46	
H-4C	AOGIB No. 3 Absorber Off-Gas	NH ₃	1.10	4.70
	Incinerator/Boiler No. 3	CO	63.0	9.70
		NO _x	90.0	119.60
		РМ	1.30	5.58
		PM ₁₀	1.30	5.58
		PM _{2.5}	1.30	5.58
		SO ₂	0.40	1.90
		VOC	2.49	4.78
H4-D	AOGIB No. 4 Absorber Off-Gas	NH ₃	6.67	29.2
	Incinerator/Boiler No. 4	СО	37.3	38.4
		NO _x	72.1	236.8
		РМ	2.55	9.29
		PM ₁₀	2.55	9.29
		PM _{2.5}	2.55	9.29
		SO ₂	0.19	0.84
		VOC	6.84	13.14
S-11B	AN Rundown Tank B	VOC	0.49	-
S-11C	AN Rundown Tank C	VOC	0.49	-
S-11B and C	AN Rundown Tanks	VOC	-	1.49

S-12A	AN Product Tank A	voc	0.64	-
S-12B	AN Product Tank B	VOC	0.64	-
S-12D	AN Product Tank D	VOC	0.64	-
S-12A, B and C	AN Product Tanks	VOC	-	3.84
S-21	Catalyst Trap	PM	1.02	4.46
		PM ₁₀	1.02	4.46
		PM _{2.5}	1.02	4.46
S-22	Bag Filter	VOC	0.01	0.03
S-9A	Crude/Off Spec. AN Tank B	voc	0.61	
S-9B	Crude/Off Spec. AN Tank A	VOC	0.61	
S-9A and B	Crude/Off Spec. AN Tanks	VOC	-	2.49
WW-1	3 Wastewater Tanks	VOC	0.21	0.50
WW-2	Oxazole Regen Tank	VOC	0.01	0.01
Acetonitrile Purification These sources are not	<u>n Unit</u> related to Permit PSDTX7	6		
ACTO-CF-1	Carbon Filter	VOC	0.15	0.03
ACTO-T35A	Rundown Tank A	voc	0.43	0.16
ACTO-T35B	Rundown Tank B	VOC	0.12	0.16
ACTO-T35C	Rundown Tank C	VOC	0.12	0.16
ACTO-T36	Acetonitrile Tank	VOC	0.22	0.22
ACTO-T37	Light Ends Feed Tank	VOC	0.13	0.10
ACTO-T38	Unpurified Acetonitrile Tank	voc	0.40	0.11
S-11A	Actetonitrile Tank	VOC	0.39	0.21
RRS-6	Loading Scrubber	VOC	0.56	0.11
		Acetone	0.01	0.03
FUG	Fugitives (5)	VOC	0.76	3.34
		Acetone	0.01	0.01
Acetone Cyanohydrin These sources are not	(ACH) and Hydrogen Cyan related to Permit PSDTX7	ide Unit <u>5</u>	•	

AC-T-40	ACH Product Tank B	VOC	0.02	0.10
AC-T-41A	ACH Rundown Tank	VOC	0.32	0.08
AC-T-41B	ACH Rundown Tank	VOC	0.32	0.08
AC-T-41C	ACH Rundown Tank	VOC	0.32	0.08
AC-T-42	ACH Product Tank A	VOC	1.40	0.84
S-12-C	Acetone Tank	Acetone	0.37	1.38
FG-ACH-1	Fugitives (5)	VOC	8.81	38.61
		Acetone	0.35	1.52
		Ammonia	0.01	0.01
	tions and Catalyst Production A not related to Permit PSDTX76		1	1
CP-B-1	Central Dust Collector	PM	0.05	0.20
		PM ₁₀	0.05	0.20
		PM _{2.5}	0.05	0.20
CP-B-3	Spray Dryer Baghouse	со	0.13	0.56
		NO _x	0.10	0.42
		PM	0.18	0.79
		PM ₁₀	0.18	0.79
		PM _{2.5}	0.18	0.79
		SO ₂	0.01	0.01
		VOC	0.01	0.04
CP-B-4	South Semiworks	РМ	0.70	0.39
	Hopper Vent Filter	PM ₁₀	0.70	0.39
		PM _{2.5}	0.70	0.39
CP-B-5	Power Filler Receiver	PM	1.46	0.80
		PM ₁₀	1.46	0.80
		PM _{2.5}	1.46	0.80
CP-B-6	Vanadium Receiver Vent Filter	PM	0.01	0.01
	Vent Filter	PM ₁₀	0.01	0.01
		PM _{2.5}	0.01	0.01

CP-S-1	Fresh Tank (recycle)	VOC	34.94	1.65
CP-S-1	Fresh Tank (fresh)	VOC	3.74	0.18
CP-S-2	Spent Tank	VOC	2.33	0.57
CP-S-4	Recycle Tank (recycle)	voc	30.62	0.89
CP-S-4	Recycle Tank (fresh)	VOC	3.28	0.10
CP-SC-1	Filter Press vent Scrubber	РМ	0.04	0.18
	Scrubber	PM ₁₀	0.04	0.18
		PM _{2.5}	0.04	0.18
		VOC	5.37	4.15
CP-T-1	Truck Unloading	VOC	2.77	0.06
H-3	Incinerator	со	101.10	141.30
		NO _x	5.26	9.74
		РМ	2.10	3.90
		PM ₁₀	2.10	3.90
		PM _{2.5}	2.10	3.90
		SO ₂	0.47	0.88
		VOC	0.01	0.02
SW-H-2	Startup Heater	со	0.08	0.33
		NO _x	0.53	2.34
		РМ	0.02	0.10
		PM ₁₀	0.02	0.10
		PM _{2.5}	0.02	0.10
		SO ₂	0.01	0.01
		VOC	0.02	0.08
CP-F-1	Fugitives (5)	РМ	0.04	0.18
		PM ₁₀	0.04	0.18
		PM _{2.5}	0.04	0.18
		VOC	1.45	6.33
FUG	Fugitives (5)	VOC	0.97	4.23

(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) NH₃ - ammonia

CO - carbon monoxide NO_x - total oxides of nitrogen

SO₂ - sulfur dioxide

VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1 PM - total particulate matter, suspended in the atmosphere, including PM_{10} and $PM_{2.5}$ PM₁₀ - total particulate matter equal to or less than 10 microns in diameter, including $PM_{2.5}$

PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter

(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:	January 27, 2017