Permit Number 1302

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	Source Name (2)	Air Contaminant	Emission Rates	
No. (1)		Name (3)	lbs/hour	TPY (4)
PH2	Start-Up Flare	VOC	165.17	6.20
		CO	258.22	18.62
		NO _x	65.84	5.40
		NH ₃	80.34	4.88
		SO ₂	0.23	0.02
PH3	ADN Operating Flare	VOC	614.45	91.62
	Routine Operations	CO	521.74	306.95
		NO _x	139.52	24.57
		SO ₂	1.23	2.91
		HCI	0.07	0.19
		NH ₃	0.05	0.24
		PM ₁₀ /PM _{2.5}	0.001	0.001
	ADN Operating Flare Maintenance Startup and Shutdown (MSS) Operations (6)	VOC	565.80	
		NO _x	139.52	
		SO ₂	1.23	
PH70	Ammonia Flare Routine/MSS Operations (7)	VOC	4.68	0.34
		СО	64.88	4.24
		NO ^x	64.41	3.91
		NH ₃	112.67	6.76
		SO ₂	0.01	0.01
PH63	HCN Loading Flare	VOC	0.34	0.77
		СО	1.59	4.07
		NO _x	0.20	0.49
		NH ₃	0.01	0.01
		SO ₂	0.01	0.01

PA403	Building 3056 Fugitive (5)	VOC	0.45	1.99
PA404	Building 3040 Fugitive (5)	VOC	4.95	21.68
PA405	Building 3050 Fugitive (5)	VOC	5.27	23.09
PA406	Building 3092 Fugitive (5)	VOC	0.08	0.37
PA407	Building 3045/3055 Fugitive (5)	VOC	0.61	2.66
		HCI	0.01	0.01
PC408	Building 3065/3099 Fugitive (5)	VOC	2.36	10.37
		HCI	0.03	0.13
PC409	Building 3068 Fugitive (5)	VOC	0.86	3.77
		HCI	0.01	0.01
B3042-PROJ	Building 3042 Fugitives - PROJ (5)	VOC	0.13	0.59
B3081-PROJ	Building 3081 Fugitives - PROJ (5)	VOC	2.30	10.06
B3045-PROJ	Building 3045 Fugitives - PROJ (5)	VOC	0.14	0.60
PF410	311 Tank Farm Fugutive (5)	VOC	0.13	0.55
PF414	3047 Rail Rack Fugitive (5)	VOC	0.19	0.82
PH401	Building 3030/3032 Fugitive (5)	VOC	3.09	13.56
		NH ₃	3.60	15.75
PH402	Building 3090 Fugitive (5)	VOC	0.02	0.10
PH601	E HCN OD Stack	VOC	0.01	0.01
		NH3	0.01	0.01
PH602	W HCN OD Stack	VOC	0.01	0.01
		NH₃	0.01	0.01
PC82	Dust Collector	PM	0.03	0.01
PT301	Tank	Inorganic	0.01	0.01
PT302	Tank	Inorganic	0.01	0.01
PT303	Tank	Inorganic	0.01	0.01
PT304	Tank	VOC	0.01	0.01
PT308	Catalyst Storage Tank #3	VOC	0.75	0.12
PT329	Catalyst Storage Tanks #1 and #2	VOC	1.01	0.14

PT305	Decanter	VOC	0.01	0.01
PT60	Absorber (8)	VOC	3.21	2.96
PA39	Fume Abator (Incinerator) (8)	VOC	0.48	1.07
		СО	0.01	0.02
		NOx	2.00	5.13
		SO ₂	0.01	0.01
		NH₃	0.01	0.01
PT326	Tank	VOC	0.01	0.01
PT329	Tank	VOC	2.51	0.24
PT335	Tank	VOC	0.03	0.01
PT308	Tank	VOC	1.88	0.36
PT10	HCI Scrubber/Tank (8)	HCI	0.17	0.03
PT341	Tank	VOC	0.01	0.01
PT342	Tank	VOC	0.13	
PT343	Tank	VOC	0.13	
PT342, PT343	Tanks	VOC		0.08
PT344	Tank	VOC	0.02	0.01
PT345	Tank	VOC	0.01	0.01
PT347	Tank	VOC	0.01	0.01
PT349	Tank	VOC	0.02	0.01
PT369	Tank	VOC	0.01	0.01
PT370	Tank	VOC	0.01	0.01
PT371	Tank	VOC	0.01	0.01
PT379	Tank	VOC	0.01	0.01
PT380	Tank	VOC	0.01	0.01
PT383	Tank	VOC	11.30	
PT384	Tank	VOC	11.30	
PT383, 384	Tanks	VOC		3.85
PT387	Tank	VOC	0.01	0.01
PT388	Tank	VOC	0.01	0.01
PC83	Building Vent	PM	6.00	0.75
PN628	ADN Analyzer Vent	VOC	0.01	0.01

PN601	NG Plant KO Pot	VOC	0.05	0.22
PH627	HCN Analyzer Vent	VOC	0.01	0.01
PN301	Tank	VOC	0.01	0.01
PN302	Tank	VOC	0.01	0.01
PT353	Tank	VOC	0.01	
PT354	Tank	VOC	0.01	
PT355	Tank	VOC	0.01	
PT353, PT354, PT355	Tanks	VOC		0.01
PT381	Tank	VOC	5.31	
PT382	Tank	VOC	5.30	
PT381, PT382	Tanks	VOC		2.08
PN447	Gas Plant Fugitive (5)	VOC	0.57	2.49
PF412	513 Tank Farm Fugitive (5)	VOC	0.01	0.02
PF413A	Cooling Tower Fugitive (5)	Inorganic	0.08	0.32
PF413	ADN Cooling Tower	PM ₁₀	0.38	1.65
PF415	3058 Tank Farm Fugitive (5)	VOC	0.23	1.01
PF900	Parts Degreaser	VOC	0.025	0.01
PF901	Dust Collector	PM	0.55	0.10
DUSTCOLL	Catalyst Prep Dust Collector	PM ₁₀ /PM _{2.5}	0.43	1.88
LDFUG - Tank FT317	Recycle Ligand Tank Loading Fugitives	VOC	0.10	0.001

PF40	South ADN Boiler	VOC	1.79**	
		СО	56.68**	
		NO_x	490.00**	
		PM	13.69**	
		HCI	2.96**	
		Cl ₂	0.72**	

		SO ₂	0.23**	
PF41	North ADN Boiler	VOC	1.79**	
		СО	69.38**	
		NO _x	637.00**	
		PM	13.69**	
		HCI	2.96**	
		Cl ₂	0.72**	
		SO ₂	0.23**	
PF40/PF41	South and North ADN Boiler	VOC		5.26
		СО		151.34
		NOx		2407.04
		PM		15.39
		HCI		4.38
		Cl ₂		1.06
		SO ₂		1.00
PF416	Boiler Fugitive (5)	VOC	0.07	0.31
PT399	Misc Tanks	VOC	0.01	0.01
PW450	Wastewater Fugitive (5)	VOC	0.05	0.01
PC22	Carbon Drum	VOC	0.01	0.01
PC425	Drum	VOC	0.03	0.01
PC426	Drum	VOC	0.01	0.01
PC23	Carbon Drum	VOC	0.01	0.01
PF601	North ADN Boiler Analyzer Vent	VOC	0.01	0.01
		СО	0.01	0.04
		NO _x	0.08	0.35
		PM	0.01	0.01
		HCI	0.01	0.01
		Cl ₂	0.01	0.01
		SO ₂	0.01	0.01
PF600	South AND Boiler Analyzer	VOC	0.01	0.01
	Vent	СО	0.01	0.03

		NO _x	0.06	0.27
		PM	0.01	0.01
		HCI	0.01	0.01
		Cl ₂	0.01	0.01
		SO ₂	0.01	0.01
Maintenance Sta	artup and Shutdown (MSS) Activities	;		
MSS-FUG	MSS Fugitives	VOC	3.19	0.23
		NH ₃	0.01	0.01
		PM	0.01	0.01
TKCL-MSS	Combustion Device for Tank	NO _x	0.62	0.07
	Cleaning	СО	0.03	0.01
		VOC	3.34	0.31
TOFA-MSS	Thermal Oxidizer for Maintenance	NO_x	1.98	0.93
		СО	1.13	1.31
		VOC	32.30	0.68
ССТЕМР	Carbon Canister Promoter Area MSS	VOC	0.11	0.03
СВА	Carbon Canister during VOC Absorber Maintenance	VOC	2.85	1.05
MSS-PROJ	Project PROJ MSS Emissions	VOC	0.17	0.01
		NH ₃	0.001	0.001
ENGINE-MSS	Portable Engines	NO _x	8.02	3.78
		VOC	0.16	0.43
		СО	3.61	2.01
		SO ₂	0.01	0.01
		PM ₁₀	0.10	0.34

⁽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

 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

NH₃ - ammonia

HCl - hydrogen chloride

Cl₂ - chlorine

- (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) Hourly maximum allowable MSS emissions of CO and HCl are less than hourly allowable routine emission limits. Annual VOC, CO, NO_x, and SO₂, and HCl MSS emissions are within the annual routine operation limits for this EPN.
- (7) Hourly maximum allowable MSS emissions of all contaminants are less than or equal to hourly allowable routine emission limits. Annual MSS emissions are within allowable annual routine limits.
- (8) Hourly maximum allowable MSS emissions of all contaminants for this EPN are less than hourly allowable routine emission limits. Annual MSS emissions of each contaminant are within allowable annual routine emission limits.
- * Emission rates are based on and the facilities are limited by the following maximum operating schedule:

Hrs/day 24 Days/week 7 Weeks/yr 52 or Hrs/year 8760

** lb/hr limits for North and South ADN Boilers are based on a 30-day rolling average.

Date:		