Permit Numbers 106921 and N270

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)
ENG-01	Control Room Emergency Generator	VOC	0.41	0.02
		NO _x	0.78	0.04
		СО	1.60	0.08
		SO ₂	<0.01	<0.01
		РМ	0.02	<0.01
		PM ₁₀	0.02	<0.01
		PM _{2.5}	0.02	<0.01
ENG-02	Flare Blower Emergency Generator	VOC	0.88	0.05
		NO _x	1.70	0.09
		СО	3.30	0.17
		SO ₂	<0.01	<0.01
		PM	0.05	<0.01
		PM ₁₀	0.05	<0.01
		PM _{2.5}	0.05	<0.01
ENG-03	Emergency Air Compressor	VOC	3.70	0.19
		NO _x	3.70	0.19
		СО	3.20	0.16
		SO ₂	<0.01	<0.01
		PM	0.19	<0.01
		PM ₁₀	0.19	<0.01
		PM _{2.5}	0.19	<0.01
ENG-04	Emergency Firewater Pump	VOC	3.60	0.18
		NO _x	3.60	0.18
		СО	3.10	0.16
		SO ₂	<0.01	<0.01
		PM	0.18	0.01
		PM ₁₀	0.18	0.01
		PM _{2.5}	0.18	0.01
ENG-07	Frac-3 & 4 Emergency Air Compressor	VOC	1.40	0.07
		NO _x	2.60	0.13
		СО	5.30	0.27

		SO ₂	<0.01	<0.01
		РМ	0.09	<0.01
		PM ₁₀	0.09	<0.01
		PM _{2.5}	0.09	<0.01
ENG-09	Frac-3 & 4 Emergency Generator	VOC	0.86	0.04
		NO _x	1.60	0.08
		СО	3.20	0.16
		SO ₂	<0.01	<0.01
		РМ	0.05	<0.01
		PM ₁₀	0.05	<0.01
		PM _{2.5}	0.05	<0.01
ENG-10	Emergency Firewater Pump	VOC	3.30	0.17
		NO _x	3.30	0.17
		СО	2.80	0.14
		SO ₂	0.01	<0.01
		РМ	0.16	0.01
		PM ₁₀	0.16	0.01
		PM _{2.5}	0.16	0.01
H-5500	Hot Oil Heater H-5500	VOC	0.72	
		NO _x	1.54	
		СО	5.76	
		SO ₂	25.26	
		H ₂ S	0.07	
		NH ₃	0.71	
		PM	0.77	
		PM ₁₀	0.77	
		PM _{2.5}	0.77	
	Heater MSS Emissions	NO _x	7.68	
		СО	46.10	

H-5501	Hot Oil Heater H-5501	VOC	0.72	
		NO _x	1.54	
		СО	5.76	
		SO ₂	25.26	
		H ₂ S	0.07	
		NH ₃	0.71	
		PM	0.77	
		PM ₁₀	0.77	
		PM _{2.5}	0.77	
	Heater MSS Emissions	NO _x	7.68	
		СО	46.10	
H-5502	Hot Oil Heater H-5502	VOC	0.72	
		NO _x	1.54	
		СО	5.76	
		SO ₂	25.26	
		H ₂ S	0.07	
		NH ₃	0.71	
		РМ	0.77	
		PM ₁₀	0.77	
		PM _{2.5}	0.77	
	Heater MSS Emissions	NO _x	7.68	
		СО	46.10	
H-7500	Hot Oil Heater H-7500	VOC	0.72	
		NO _x	1.54	
		СО	5.76	
		SO ₂	25.26	
		H ₂ S	0.07	
		NH ₃	0.71	
		PM	0.77	
		PM ₁₀	0.77	
		PM _{2.5}	0.77	
	Heater MSS Emissions	NO _x	7.68	
		СО	46.10	
H-7501	Hot Oil Heater H-7501	VOC	0.72	
		NO _x	1.54	
		СО	5.76	

		SO ₂	25.26	
		H ₂ S	0.07	
		NH ₃	0.71	
		PM	0.77	
		PM ₁₀	0.77	
		PM _{2.5}	0.77	
	Heater MSS Emissions	NO _x	7.68	
		СО	46.10	
H-7502	Hot Oil Heater H-7502	VOC	0.72	
		NO _x	1.54	
		СО	5.76	
		SO ₂	25.26	
		H ₂ S	0.07	
		NH ₃	0.71	
		PM	0.77	
		PM ₁₀	0.77	
		PM _{2.5}	0.77	
	Heater MSS Emissions	NO _x	7.68	
		СО	46.10	
H-5500/	Hot Oil Heater Cap (6)	VOC		8.82
H-5501/ H-5502/		NO _x		35.13
H-7500/		СО		35.07
H-7501/ H-7502		SO ₂		74.01
		H₂S		0.29
		NH ₃		11.25
		PM		17.55
		PM ₁₀		17.55
		PM _{2.5}		17.55
	Heater MSS Emissions (6)	NO _x		0.74
		СО		4.42

H-41500	Hot Oil Heater H-41500	VOC	2.24	
		NO _x	1.92	
		СО	7.20	
		SO ₂	13.73	
		H ₂ S	0.07	
		NH ₃	0.88	
		РМ	0.96	
		PM ₁₀	0.96	
		PM _{2.5}	0.96	
	Heater MSS Emissions	NO _x	9.60	
		СО	57.60	
H-41501	Hot Oil Heater H-41501	VOC	2.24	
		NO _X	1.92	
		СО	7.20	
		SO ₂	13.73	
		H ₂ S	0.07	
		NH ₃	0.88	
		РМ	0.96	
		PM ₁₀	0.96	
		PM _{2.5}	0.96	
	Heater MSS Emissions	NO _X	9.60	
		СО	57.60	
H-51500	Hot Oil Heater H-51500	VOC	2.24	
		NO _X	1.92	
		СО	7.20	
		SO ₂	13.73	
		H ₂ S	0.07	
		NH ₃	0.88	
		PM	0.96	
		PM ₁₀	0.96	
		PM _{2.5}	0.96	
	Heater MSS Emissions	NO _X	9.60	
		СО	57.60	
H-51501	Hot Oil Heater H-51501	VOC	2.24	
		NO _X	1.92	
		СО	7.20	

		SO ₂	13.73	
		H₂S	0.07	
		NH ₃	0.88	
		PM	0.96	
		PM ₁₀	0.96	
		PM _{2.5}	0.96	
	Heater MSS Emissions	NO _X	9.60	
		СО	57.60	
H-41500/	Hot Oil Heater Cap (7)	VOC		13.37
H-41501/ H-51500/		NO _X		18.28
H-51501		СО		30.48
		SO ₂		57.24
		H ₂ S		0.28
		NH ₃		10.76
		PM		15.24
		PM ₁₀		15.24
		PM _{2.5}		15.24
	Hot Oil Heater MSS Emissions (7)	NO _X		0.56
		СО		3.34
H-EP2	Hot Oil Heater H-EP2	VOC	0.30	1.31
		NO _X	1.50	3.94
		СО	5.63	6.57
		SO ₂	0.26	1.13
		NH₃	0.69	2.10
		РМ	0.75	3.29
		PM ₁₀	0.75	3.29
		PM _{2.5}	0.75	3.29
	Heater MSS Emissions	NO _X	7.50	0.12
		СО	45.00	0.72

H-61500	Hot Oil Heater H-61500	VOC	2.47	
		NO _x	1.92	
		СО	7.20	
		SO ₂	51.21	
		H ₂ S	0.07	
		NH ₃	0.88	
		РМ	0.96	
		PM ₁₀	0.96	
		PM _{2.5}	0.96	
	Heater MSS Emissions	NO _X	9.60	
		СО	57.60	
H-61501	Hot Oil Heater H-61501	VOC	2.47	
		NO _x	1.92	
		СО	7.20	
		SO ₂	51.21	
		H ₂ S	0.07	
		NH₃	0.88	
		РМ	0.96	
		PM ₁₀	0.96	
		PM _{2.5}	0.96	
	Heater MSS Emissions	NO _x	9.60	
		СО	57.60	
H-71500	Hot Oil Heater H-71500	VOC	2.47	
		NO _X	1.92	
		СО	7.20	
		SO ₂	51.21	
		H ₂ S	0.07	
		NH₃	0.88	
		РМ	0.96	
		PM ₁₀	0.96	
		PM _{2.5}	0.96	
	Heater MSS Emissions	NO _X	9.60	
		СО	57.60	
H-71501	Hot Oil Heater H-71501	VOC	2.47	
		NO _X	1.92	
		СО	7.20	

	1	SO ₂	51.21	
		H ₂ S	0.07	
		NH ₃	0.88	
		PM	0.96	
		PM ₁₀	0.96	
		PM _{2.5}	0.96	
	Heater MSS Emissions	NO _X	9.60	
	Healer WISS ETHISSIONS	CO	57.60	
11.61500/	Liet Oil Liester Can (0)	VOC		14.22
H-61500/ H-61501/	Hot Oil Heater Cap (9)			14.33
H-71500/		NO _X		18.29
H-71501		CO		30.48
		SO ₂		100.20
		H ₂ S		0.28
		NH ₃		9.76
		PM		15.24
		PM ₁₀		15.24
		PM _{2.5}		15.24
	Hot Oil Heater MSS Emissions (9)	NO _X		0.56
		СО		3.34
FL-5600	Flare	VOC	0.02	0.11
		NO _x	0.61	2.70
		СО	2.40	11.00
		SO ₂	<0.01	0.02
FL-02	Flare	VOC	0.02	0.11
		NOx	0.61	2.70
		СО	2.40	11.00
		SO2	<0.01	0.02
CT-5601	Cooling Tower CT-5601	VOC	2.52	3.15
		РМ	1.50	6.57
		PM ₁₀	0.60	2.63
		PM _{2.5}	0.15	0.66
CT-7601	Cooling Tower CT-7601	VOC	2.53	4.71
		PM	1.50	6.57
		PM ₁₀	0.60	2.63
		PM _{2.5}	0.15	0.66
CT-41601	Cooling Tower CT-41601	VOC	3.01	3.15
O: 41001	Cooming Tower CT-41001	V 0 0	5.01	0.10

		PM	1.80	6.58
		PM ₁₀	0.72	2.63
		PM _{2.5}	0.18	0.66
CT-51601	Cooling Tower CT-51601	VOC	3.70	4.05
		PM	2.20	8.44
		PM ₁₀	0.88	3.38
		PM _{2.5}	0.22	0.84
CT-EP2	Cooling Tower CT-EP2	VOC	4.49	8.44
		PM	2.68	11.73
		PM ₁₀	1.07	4.69
		PM _{2.5}	0.27	1.17
CT-61601	Cooling Tower CT-61601	VOC	3.73	6.95
		РМ	2.20	9.64
		PM ₁₀	0.88	3.86
		PM _{2.5}	0.22	0.96
CT-71601	Cooling Tower CT-71601	VOC	3.73	6.95
		PM	2.20	9.64
		PM ₁₀	0.88	3.86
		PM _{2.5}	0.22	0.96
T-2421	Spent Caustic Tank T-2421	VOC	0.99	0.01
		H ₂ S	<0.01	<0.001
T-3421	Spent Caustic Tank T-3421	VOC	0.99	0.01
		H ₂ S	<0.01	<0.001
T-5631	Wastewater Tank T-5631	VOC	1.69	0.02
T-7631	Wastewater Tank T-7631	VOC	1.69	0.02
CAS-2421	Controlled Emissions from Spent Caustic Tank (EPN T-2421)	voc	0.05	<0.01
CAS-3421	Controlled Emissions from Spent Caustic Tank (EPN T-3421)	voc	0.05	<0.01
LOAD-2421	Spent Caustic Loading (T-2421)	VOC	0.09	<0.01
LOAD-5631	Wastewater Loading (T-5631)	VOC	0.09	<0.01
LOAD-3421	Spent Caustic Loading (T-3421)	VOC	0.09	<0.01
LOAD-7631	Wastewater Loading (T-7631)	VOC	0.09	<0.01
LOAD-SC-3	Spent Caustic Loading (Frac-4,-5,&-6)	VOC	0.09	<0.01
LOAD-C3-3	Pressurized Loading (Frac-3 & 4 Contribution)	voc	0.47	<0.01
LOAD-C3 Project Number: 36260	Pressurized Loading (EP-2, Frac-5 & 6	voc	0.47	<0.01

	Contribution)			
FUG-01	EPS and Frac-1 Equipment Leak	voc	2.23	9.75
	Fugitives (5)	H ₂ S	<0.01	0.02
		NH ₃	0.02	0.10
FUG-02	Frac-2 Equipment Leak Fugitives (5)	VOC	1.28	5.61
		H ₂ S	<0.01	0.01
FUG-03	Frac-3 Equipment Leak Fugitives (5)	VOC	0.964	4.22
		H ₂ S	<0.01	0.02
FUG-04	Frac-4 Equipment Leak Fugitives (5)	VOC	1.22	5.35
		H ₂ S	0.01	0.02
		NH ₃	0.02	0.10
FUG-EP2	EP-2 Equipment Leak Fugitives (5)	VOC	0.24	1.03
l		NH ₃	0.02	0.10
FUG-05	Frac-5 Equipment Leak Fugitives (5)	VOC	1.22	5.35
		H ₂ S	0.01	0.02
		NH ₃	0.02	0.10
FUG-06	Frac-6 Equipment Leak Fugitives (5)	VOC	1.22	5.32
		H ₂ S	0.01	0.02
		NH ₃	0.02	0.10
MSS FL-5600/FL-2	MSS Flaring Cap (8)	VOC	620.88	12.79
		NO _x	246.65	5.52
		СО	1531.80	34.60
		SO ₂	0.25	0.03
		H ₂ S	<0.01	<0.001
MSS FL-5600/FL-2	MSS Flaring Cap (EP-2 Contribution)	VOC	76.88	1.85
	(8)	NO _x	69.46	1.67
		СО	406.00	9.75
MSS FL-5600/FL-2	MSS Flaring Cap (Frac-5 & 6	VOC	384.00	9.24
	Contribution) (8)	NO _x	175.00	4.20
		СО	1079.00	25.91
		SO ₂	0.19	<0.01
		H ₂ S	<0.01	<0.01
MSS-FUG	MSS Degassing	VOC	176.80	3.43
		NH ₃	0.47	<0.01
MSS-FUG-E2	MSS De-gassing	VOC	14.50	0.57
	(EP-2 Contribution)	NH ₃	0.10	<0.01
		i	1	i

MSS-FUG-3	MSS De-gassing	VOC	169.00	1.44
	(Frac-3 & 4 Contribution)	NH ₃	0.07	<0.01
		H ₂ S	<0.01	<0.001
MSS-FUG-5	MSS De-gassing	VOC	149.00	1.36
	(Frac-5 & 6 Contribution)	NH₃	0.07	<0.01
		H₂S	<0.01	<0.01
All Sources at the Site	All Sources at the Site	Individual HAP	-	<10
All Sources at the Site	All Sources at the Site	Total HAPs	-	<25

- (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

H₂S - Hydrogen Sulfide 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

HAP - 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

- (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) Annual Emissions represent combined annual emissions from heaters H-5500, H-5501, H-5502, H-7500, H-7501, and H-7502.
- (7) Annual Emissions represent combined annual emissions from heaters H-41500, H-41501, H-51500, and H-51501.
- (8) Emissions represent total combined emission rates from EPNs FL-5600 and FL-02.
- (9) Annual Emissions represent combined annual emissions from heaters H-61500, H-61501, H-71500, and H-71501.

y 30, 2023