Permit Number 19592

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	Emission	Emission Rates	
		(3)	lbs/hour	TPY (4)	
REGEN-4	Regeneration Heater 741	VOC	0.08	0.37	
		NO _x	1.54	6.73	
		СО	1.29	5.65	
		PM	0.12	0.51	
		PM ₁₀	0.12	0.51	
		PM _{2.5}	0.12	0.51	
		SO ₂	0.01	0.04	
		НАР	0.03	0.13	
HTR-TRTR-1	Heater Treater	VOC	0.03	0.11	
		NO _x	0.46	2.02	
		СО	0.39	1.70	
		PM	0.04	0.15	
		PM ₁₀	0.04	0.15	
		PM _{2.5}	0.04	0.15	
		SO ₂	0.01	0.01	
		НАР	0.01	0.04	
BOILER-1	Steam Boiler 721	VOC	0.14	0.59	
		NO _x	2.46	10.78	
		СО	2.07	9.05	
		PM	0.19	0.82	
		PM ₁₀	0.19	0.82	
		PM _{2.5}	0.19	0.82	
		SO ₂	0.01	0.06	
		НАР	0.05	0.20	

BU-BOILER	Backup Steam Boiler	VOC	0.14	0.03
		NO _x	2.46	0.62
		СО	2.07	0.52
		РМ	0.19	0.05
		PM ₁₀	0.19	0.05
		PM _{2.5}	0.19	0.05
		SO ₂	0.01	0.01
		НАР	0.05	0.01
HMOHTR-1	HMO Heater 781	VOC	0.07	0.31
		NO _x	1.29	5.67
		СО	1.09	4.76
		РМ	0.10	0.43
		PM ₁₀	0.10	0.43
		PM _{2.5}	0.10	0.43
		SO ₂	0.01	0.03
		НАР	0.02	0.11
C1AMINE-HTR	C1 Amine Boiler	VOC	0.06	0.25
		NO _x	1.03	4.51
		СО	0.86	3.79
		РМ	0.08	0.34
		PM ₁₀	0.08	0.34
		PM _{2.5}	0.08	0.34
		SO ₂	0.01	0.03
		НАР	0.02	0.09

C1REGEN-HTR	C1 Regen Heater	VOC	0.04	0.18
		NO _x	0.74	3.22
		СО	0.62	2.71
		PM	0.06	0.24
		PM ₁₀	0.06	0.24
		PM _{2.5}	0.06	0.24
		SO ₂	0.01	0.02
		НАР	0.01	0.06
C1-HOH	C1 Hot Oil Heater	VOC	0.05	0.22
		NO _x	0.92	4.04
		СО	0.77	3.39
		PM	0.07	0.31
		PM ₁₀	0.07	0.31
		PM _{2.5}	0.07	0.31
		SO ₂	0.01	0.02
		HAP	0.02	0.08
EGEN2	Multiquip TWD740GE	VOC	0.82	0.02
		NO _x	9.93	0.26
		СО	2.15	0.06
		РМ	0.60	0.02
		PM ₁₀	0.60	0.02
		PM _{2.5}	0.60	0.02
		SO ₂	0.01	0.01
		НАР	0.01	0.01

EGEN3	Cummins 4BT3.3-G5	VOC	0.02	0.01
		NO _x	0.41	0.02
		СО	0.11	0.01
		РМ	0.01	0.01
		PM ₁₀	0.01	0.01
		PM _{2.5}	0.01	0.01
		SO ₂	0.01	0.01
		HAP	0.01	0.01
EGEN4	Cummins 4BT3.3-G5	VOC	0.02	0.01
		NO _x	0.41	0.02
		СО	0.11	0.01
		РМ	0.01	0.01
		PM ₁₀	0.01	0.01
		PM _{2.5}	0.01	0.01
		SO ₂	0.01	0.01
		HAP	0.01	0.01
EGEN5	Cummins 4BT3.3-G5	VOC	0.02	0.01
		NO _x	0.41	0.02
		СО	0.11	0.01
		РМ	0.01	0.01
		PM ₁₀	0.01	0.01
		PM _{2.5}	0.01	0.01
		SO ₂	0.01	0.01
		HAP	0.01	0.01

EGEN6	Generaco Guardian 8 kW	voc	0.01	0.01
		NO _x	0.27	0.01
		СО	0.45	0.02
		PM	0.01	0.01
		PM ₁₀	0.01	0.01
		PM _{2.5}	0.01	0.01
		SO ₂	0.01	0.01
		НАР	0.01	0.01
ENG-A14	Caterpillar 3608 TALE	VOC	1.37	6.01
		NO _x	3.66	16.02
		СО	1.37	6.01
		PM	0.16	0.68
		PM ₁₀	0.16	0.68
		PM _{2.5}	0.16	0.68
		SO ₂	0.01	0.04
		HAP	0.52	2.28
ENG-A15	Caterpillar 3606 TALE	VOC	0.68	2.98
		NO _x	2.74	12.00
		СО	0.98	4.29
		PM	0.12	0.51
		PM ₁₀	0.12	0.51
		PM _{2.5}	0.12	0.51
		SO ₂	0.01	0.03
		НАР	0.20	0.85
ENG-A17	Caterpillar 3606 TALE	VOC	0.68	2.98
		NO _x	2.74	12.00
		СО	0.98	4.29
		PM	0.12	0.53

		PM ₁₀	0.12	0.53
		PM _{2.5}	0.12	0.53
		SO ₂	0.01	0.03
		HAP	0.20	0.87
ENG-A18	Caterpillar 3516B TALE	VOC	0.70	3.06
		NO _x	2.13	9.33
		СО	0.74	3.24
		PM	0.10	0.45
		PM ₁₀	0.10	0.45
		PM _{2.5}	0.10	0.45
		SO ₂	0.01	0.03
		HAP	0.26	1.14
ENG-B26	Caterpillar G3606LE	VOC	0.54	2.35
		NO _x	2.74	12.00
		СО	0.98	4.29
		PM	0.12	0.51
		PM ₁₀	0.12	0.51
		PM _{2.5}	0.12	0.51
		SO ₂	0.01	0.03
		HAP	0.17	0.76
ENG-B31	Caterpillar 3606 TALE	VOC	0.78	3.43
		NO _x	1.96	8.57
		СО	0.98	4.29
		PM	0.12	0.51
		PM ₁₀	0.12	0.51
		PM _{2.5}	0.12	0.51
		SO ₂	0.01	0.03
		HAP	0.30	1.30
TK-824A	Contact Water	VOC	0.01	0.01

TK-850	Condensate / Contact Water	VOC	15.18	4.00
	vvatei	НАР	0.25	0.02
		H ₂ S	0.01	0.01
TK-851	Condensate	VOC	14.65	3.82
		НАР	0.20	0.01
		H ₂ S	0.01	0.01
TK-853	Contact Water	VOC	0.01	0.01
ST-01	Condensate / Contact	VOC	6.09	0.74
	Water	НАР	0.26	0.03
		H ₂ S	0.01	0.01
ST-02	Condensate / Contact	VOC	6.09	0.74
	Water	НАР	0.26	0.03
		H ₂ S	0.01	0.01
ST-03	Condensate / Contact	VOC	6.09	0.74
	Water	НАР	0.26	0.03
		H ₂ S	0.01	0.01
ST-04	Condensate / Contact Water	VOC	6.09	0.74
	vvalei	НАР	0.26	0.03
		H ₂ S	0.01	0.01
ST-05	Condensate / Contact	VOC	6.09	0.74
	Water	НАР	0.26	0.03
		H ₂ S	0.01	0.01
ST-06	Condensate / Contact	VOC	6.09	0.74
	Water	НАР	0.26	0.03
		H₂S	0.01	0.01
ST-07	Condensate / Contact	VOC	6.09	0.74
	Water	HAP	0.26	0.03
		H ₂ S	0.01	0.01
TK-PW	Produced Water	VOC	5.14	1.62

1		HAP	0.01	0.01
			0.01	0.01
		H ₂ S		
TANK-2	Gasoline	VOC	56.64	0.57
		HAP	0.51	0.01
TK-M1	Methanol	VOC	5.76	0.04
		HAP	5.76	0.04
TK-M2	Methanol	voc	1.44	0.01
		HAP	1.44	0.01
TK-RA	Rich Amine Tank	VOC	0.82	0.01
TK-LA	Lean Amine Tank	VOC	0.82	0.01
TK-B1	Breaxit	VOC	0.89	0.02
TK-B2	Breaxit	VOC	0.46	0.02
TK-B3	Emulsion Breaker	VOC	0.46	0.02
TK-COR1	Corrosion Inhibitor	VOC	0.24	0.03
TK-COR2	Corrosion Inhibitor	VOC	0.24	0.03
TK-COR3	Corrosion Inhibitor	voc	0.07	0.03
TK-D1	Diesel	VOC	0.03	0.01
TK-D2	Diesel	VOC	0.01	0.01
TK-D3	Diesel	voc	0.01	0.01
TK-D4	Diesel	voc	0.01	0.01
TK-Foam1	Defoamer	voc	0.01	0.01
TK-SOAP	Soap	VOC	0.27	0.01
TK-DEG	Degreaser	voc	0.27	0.01
TK-CLEAN	EC1538A CleanNcore	voc	0.92	0.01
FUG-1	Equipment Leak Fugitives	VOC	5.71	25.02
	(5)	H ₂ S	0.01	0.01
C1-Flare	C1-Flare - Pilot Gas, Dehy Waste Gas, and Amine	VOC	9.77	16.85
	Acid Gas	NO _x	5.58	20.81
		СО	22.23	82.86
		J		1

	H ₂ S	0.08	0.34
	SO ₂	7.08	30.96
	НАР	2.53	0.73

- (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) H₂S - hydrogen sulfide

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

PM₁₀ - 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

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

MSS - maintenance, startup, and shutdown emissions

(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:	October 7, 2021	