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 (3)	Emission	Rates
			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
		РМ	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
		PM	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
		PM	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
		NOx	1.03	4.51
		СО	0.86	3.79
		PM	0.08	0.34
		PM ₁₀	0.08	0.34
		PM _{2.5}	0.08	0.34
		SO ₂	0.01	0.03
		HAP	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
		РМ	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
		NOx	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
		NOx	9.93	0.26
		СО	2.15	0.06
		PM	0.60	0.02
		PM ₁₀	0.60	0.02
		PM _{2.5}	0.60	0.02
		SO ₂	0.01	0.01
		HAP	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
		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
EGEN4	Cummins 4BT3.3-G5	voc	0.02	0.01
		NO _x	0.41	0.02
		со	0.11	0.01
		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
EGEN5	Cummins 4BT3.3-G5	voc	0.02	0.01
		NOx	0.41	0.02
		СО	0.11	0.01
		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

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
		НАР	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
	, and the second	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

1		1	ı
	PM ₁₀	0.12	0.53
	PM _{2.5}	0.12	0.53
	SO ₂	0.01	0.03
	НАР	0.20	0.87
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
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
	НАР	0.17	0.76
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
İ		1	1.00
	HAP	0.30	1.30
	Caterpillar G3606LE	SO2	PM₂₅ 0.12 SO₂ 0.01 HAP 0.20 Caterpillar 3516B TALE VOC 0.70 NO₂ 2.13 CO 0.74 PM 0.10 PM₂₅ 0.10 SO₂ 0.01 HAP 0.26 Caterpillar G3606LE VOC 0.54 NO₂ 2.74 CO 0.98 PM 0.12 PM₂₅ 0.12 PM₂₅ 0.12 PM₂₅ 0.01 HAP 0.17 Caterpillar 3606 TALE VOC 0.78 NO₂ 1.96 CO 0.98 PM 0.12 PM₂₅ 0.12 PM₂₅ 0.12

TK-850	Condensate / Contact Water	VOC	15.18	4.00
	vvalei	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 Water	VOC	6.09	0.74
	vvater	НАР	0.26	0.03
		H ₂ S	0.01	0.01
ST-02	Condensate / Contact Water	VOC	6.09	0.74
	water	HAP	0.26	0.03
		H₂S	0.01	0.01
ST-03	Condensate / Contact Water	VOC	6.09	0.74
	vvalei	НАР	0.26	0.03
		H ₂ S	0.01	0.01
ST-04	Condensate / Contact Water	VOC	6.09	0.74
	water	HAP	0.26	0.03
		H ₂ S	0.01	0.01
ST-05	Condensate / Contact Water	VOC	6.09	0.74
	vvalei	НАР	0.26	0.03
		H₂S	0.01	0.01
ST-06	Condensate / Contact	VOC	6.09	0.74
	Water	НАР	0.26	0.03
		H ₂ S	0.01	0.01
	Condensate / Contact Water	VOC	6.09	0.74
	vvalei	НАР	0.26	0.03
		H ₂ S	0.01	0.01
TK-PW	Produced Water	VOC	5.14	1.62

		HAP	0.01	0.01
		H ₂ S	0.01	0.01
TANK-2	Gasoline	VOC	56.64	0.57
		НАР	0.51	0.01
TK-M1	Methanol	voc	5.76	0.04
		НАР	5.76	0.04
TK-M2	Methanol	voc	1.44	0.01
		НАР	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 (5)	voc	5.71	25.02
		H ₂ S	0.01	0.01
C1-Flare	C1-Flare - Pilot Gas, Dehy	voc	9.77	16.85
	Waste Gas, and Amine Acid Gas	NO _x	5.58	20.81
		СО	22.23	82.86

	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:	DRAFT