Permit Number 117323

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.	Source Name (2)	Air Contaminant Name (3)	Emission	Rates
(1)			lbs/hour	TPY (4)
COMP-15	Compressor 15,	voc	0.71	3.12
	Cat G3612 LE or equivalent – Ramsey	NO _x	3.91	17.12
	IV Plant	СО	0.65	2.84
		РМ	0.24	1.03
		PM ₁₀	0.24	1.03
		PM _{2.5}	0.24	1.03
		SO ₂	0.01	0.02
		НСНО	0.16	0.69
COMP-16 Co	Compressor 16, Cat G3612 LE or equivalent – Ramsey IV Plant	VOC	0.71	3.12
		NO _x	3.91	17.12
		СО	0.65	2.84
		PM	0.24	1.03
		PM ₁₀	0.24	1.03
		PM _{2.5}	0.24	1.03
		SO ₂	0.01	0.02
		НСНО	0.16	0.69
COMP-17	Compressor 17,	VOC	0.71	3.12
	Cat G3612 LE or equivalent – Ramsey IV Plant	NO _x	3.91	17.12
		СО	0.65	2.84
		PM	0.24	1.03
		PM ₁₀	0.24	1.03
		PM _{2.5}	0.24	1.03
		SO ₂	0.01	0.02
		НСНО	0.16	0.69

			3.12
equivalent – Ramsey			17.12
IV Plant			2.84
	PM		1.03
	PM ₁₀	0.24	1.03
	PM _{2.5}	0.24	1.03
	SO ₂	0.01	0.02
	НСНО	0.16	0.69
	VOC	0.71	3.12
	NO _x	3.91	17.12
IV Plant	СО	0.65	2.84
	РМ	0.24	1.03
	PM ₁₀	0.24	1.03
	PM _{2.5}	0.24	1.03
	SO ₂	0.01	0.02
	НСНО	0.16	0.69
Compressor 25, Cat G3612 LE or equivalent – Ramsey VI Plant	VOC	0.71	3.12
	NO _x	3.91	17.12
	СО	0.65	2.84
	PM	0.24	1.03
	PM ₁₀	0.24	1.03
	PM _{2.5}	0.24	1.03
	SO ₂	0.01	0.02
	НСНО	0.16	0.69
Compressor 26, Cat	VOC	0.71	3.12
	NO _x	3.91	17.12
VI Plant	СО	0.65	2.84
	PM	0.24	1.03
	PM ₁₀	0.24	1.03
	PM _{2.5}	0.24	1.03
	SO ₂	0.01	0.02
	НСНО	0.16	0.69
Compressor 27, Cat	VOC	0.71	3.12
G3612 LE or equivalent – Ramsey	NO _x	3.91	17.12
	Compressor 18, Cat G3612 LE or equivalent – Ramsey IV Plant Compressor 19, Cat G3612 LE or equivalent – Ramsey IV Plant Compressor 25, Cat G3612 LE or equivalent – Ramsey VI Plant Compressor 26, Cat G3612 LE or equivalent – Ramsey VI Plant Compressor 27, Cat G3612 LE or equivalent – Ramsey VI Plant	Compressor 18, Cat G3612 LE or equivalent − Ramsey IV Plant	NOx 3.91

	Emission Sources	- Maximum Allowable Emission	1 Rates	Т
	VI Plant	СО	0.65	2.84
		PM	0.24	1.03
		PM ₁₀	0.24	1.03
		PM _{2.5}	0.24	1.03
		SO ₂	0.01	0.02
		НСНО	0.16	0.69
COMP-28	Compressor 28, Cat	VOC	0.71	3.12
	G3612 LE or equivalent – Ramsey	NO _x	3.91	17.12
	VI Plant	СО	0.65	2.84
		PM	0.24	1.03
		PM ₁₀	0.24	1.03
		PM _{2.5}	0.24	1.03
		SO ₂	0.01	0.02
		НСНО	0.16	0.69
COMP-29	Compressor 29, Cat	VOC	0.71	3.12
	G3612 LE or equivalent – Ramsey VI Plant	NO _x	3.91	17.12
		СО	0.65	2.84
		PM	0.24	1.03
		PM ₁₀	0.24	1.03
		PM _{2.5}	0.24	1.03
		SO ₂	0.01	0.02
		нсно	0.16	0.69
BD3	Engine Blowdowns- Ramsey IV	voc	2.84 (6)	0.13 (7)
BD4	Engine Blowdowns- Ramsey V	voc	2.84 (6)	0.13 (7)
BD5	Engine Blowdowns- Ramsey VI	voc	2.84 (6)	0.13 (7)
H-8	Regenerator Heater,	VOC	0.185	0.81
	36MMBtu/hr - Ramsey Plant IV	NO _x	1.671	7.32
		со	1.26	5.52
		РМ	0.25	1.11
		PM ₁₀	0.25	1.11
		PM _{2.5}	0.25	1.11

Emission	Sources -	Maximum	Allowable	Emission Rates
	Juli Ces -	ινιαλιπιαπ	Allowable	

ı	Lillission Sources	- Maximum Allowable	LIIIISSIUII Raies	
		SO ₂	0.02	0.09
		Total HAP	0.07	0.29
H-9	Hot Oil Heater, 60	voc	0.31	1.34
	MMBtu/hr – Ramsey Plant IV	NO _x	2.79	12.20
		СО	2.10	9.20
		PM	0.42	1.85
		PM ₁₀	0.42	1.85
		SO ₂	0.03	0.15
		Total HAP	0.07	0.29
H-10	Regenerator Heater, 36 MMBtu/hr –	VOC	0.19	0.81
	Ramsey Plant V	NO _x	1.67	7.32
		СО	1.26	5.52
		PM	0.25	1.11
		PM ₁₀	0.25	1.11
		PM _{2.5}	0.25	1.11
		SO ₂	0.02	0.09
		Total HAP	0.07	0.29
	Hot Oil Heater, 60	VOC	0.31	1.34
	MMBtu/hr – Ramsey Plant VI	NO _x	2.79	12.20
		СО	2.10	9.20
		РМ	0.42	1.85
		PM ₁₀	0.42	1.85
		PM _{2.5}	0.42	1.85
		SO ₂	0.03	0.15
		Total HAP	0.07	0.29
H-12	Regenerator Heater, 36 MMBtu/hr –	VOC	0.19	0.81
	Ramsey Plant VI	NO _x	1.67	7.32
		СО	1.26	5.52
		PM	0.25	1.11

Emission	SOUTCAS -	Maximum	Allowable	Emission Rates	
	Juli Ces -	ινιαλιπιαπ	Allowable		

1	Emission Sources	- Maximum Allowable Emission	n Rates	
		PM ₁₀	0.25	1.11
		PM _{2.5}	0.25	1.11
		SO ₂	0.02	0.09
		Total HAP	0.07	0.29
RTO-4 & RTO-4MSS	Regenerative	VOC	0.20	0.89
	Thermal Oxidizer, 8MMBtu/hr –	NO _x	0.83	3.62
	Ramsey Plant IV	СО	4.46	19.54
		РМ	0.06	0.25
		PM ₁₀	0.06	0.25
		PM _{2.5}	0.06	0.25
		SO ₂	14.29	62.61
		H ₂ S	0.08	0.34
		Total HAP	0.01	0.04
RTO-5 & RTO-5MSS	Regenerative Thermal Oxidizer,	VOC	0.20	0.89
	8MMBtu/hr – Ramsey Plant VI	NO _x	0.83	3.62
		СО	4.46	19.54
		PM	0.06	0.25
		PM ₁₀	0.06	0.25
		PM _{2.5}	0.06	0.25
		SO ₂	14.29	62.61
		H ₂ S	0.08	0.34
		Total HAP	0.01	0.04
F-2R	Flare (8)	NO _x	23.96	3.45
		со	47.85	6.89
		VOC	0.32	0.05
		SO ₂	14.10	2.03
		H ₂ S	0.15	0.01
		Total HAP	0.01	0.01
FUG4	Fugitive Emissions (5) Ramsey Plant IV	voc	0.86	3.79

FUG5	Fugitive Emissions (5) Ramsey Plant V	VOC	0.86	3.79
FUG6	Fugitive Emissions (5) Ramsey Plant VI	voc	0.86	3.79

- (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 PM_{10} 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

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

H₂S - hydrogen sulfide HCHO - formaldehyde

(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 blowdown emissions are based on maximum blowdowns when there is total plant shutdown during which all engines blowdown at the same time.
- (7) Annual blowdown emissions are based on an average of 2 events/engine/month and estimated duration of blowdown of 0.25 hrs.
- (8) During RTO down time emissions from Amine Still Vents shall be routed to Emergency Flare. The allowable downtimes for the RTOs are described in Special Condition No. 23.

Dale. Febluary 5, 2010	Date:	February 5, 2016
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