EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 3158

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 a permit and are the maximum rates allowed for these facilities. 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* lb/hr TPY		
1	Acid Gas Flar	e (5)	-	-	-
2	Spare Regend Heater (6)	eration	NO _x CO VOC SO ₂	0.19 0.04 0.01 0.03	0.58 0.12 0.03 0.08
3	Hot Oil Heate	r	NO _x CO VOC SO ₂	1.07 0.21 0.06 0.15	3.34 0.67 0.18 0.48
4	Old Plant Eme	ergency Flare (5) -	-	-	
6	Acid Gas Incii	nerator (7)	NO _x CO VOC SO ₂	0.74 5.42 23.74 0.04 148.71	2.33 0.12 651.35
7	New Plant Emerge	ency Flare (5)	-	-	-
37	Steam Boiler		NO _x CO VOC SO ₂	0.17 0.03 0.01 0.02	0.52 0.10 0.03 0.07
41/42	600 HP Clark RA-	6	NO _x CO VOC SO ₂	26.43 1.85 1.32 0.08	115.76 8.10 5.78 0.35

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emissior lbs/hr	n Rates * TPY		
43/44	600 HP Clark RA-6	5 (8)	NO _x		26.43	115.76
			CO		1.85	8.10
			VOC		1.32	5.78
			SO ₂		0.08	0.35
45/46	600 HP Clark RA-6	j	NO _x		26.43	115.76
			CO		1.85	8.10
			VOC		1.32	5.78
			SO ₂		0.08	0.35
47/48	600 HP Clark RA-6	5 (9), (10)	NO _x		26.43	38.32
			CO		1.85	2.68
			VOC		1.32	1.91
			SO ₂		0.08	0.12
50/51	600 HP Clark RA-6	5 (9), (10)	NO _x		26.43	38.32
		,,,,	СО		1.85	2.68
			VOC		1.32	1.91
			SO ₂		0.08	0.12
52	660 HP Worthingto	n 58-2 SLHC	NO _x		26.17	114.62
			СО		2.91	12.75
			VOC		2.91	12.75
			SO ₂		0.09	0.39
53	660 HP Worthingto	n 58-2 SLHC	NO _x		26.17	114.62
	o o o o o o o o o o o o o o o o o o o		CO		2.91	12.75
			VOC		2.91	12.75
			SO ₂		0.09	0.39
54	660 HP Worthingto	ın 58-2	NO _x		26.17	37.95
0-1	SLHC (8)	11 00 2	CO		2.91	4.22
	SLITE (0)		VOC	5	2.91	4.22
			SO ₂		0.09	0.13
			302		0.09	0.13
56	1100 HP White Sup	perior	NO _x		6.47	28.34
	12G825		CO		3.88	16.99
			VOC		0.78	3.42
			SO ₂		0.15	0.66
61	2000 HP White Sup	perior	NO _x		8.81	38.59
	·			SGTA	CO	7.05
	30.88					

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Ra lbs/hr TPY			
1 01116 1 (2)	rtaine (2)	rtarrio (O)	100/111 11 1	<u></u>		
			VOC		1.41	6.18
			SO ₂		0.27	1.18
			332		0.21	1,10
62	2000 HP White Supe	rior	NO_x		8.81	38.59
	12SGTA		CO		7.05	30.88
			VOC		1.41	6.18
			SO ₂		0.27	1.18
63	2000 HP White Supe	rior	NO _x		8.81	38.59
00	12SGTA	1101	CO		7.05	30.88
	120017		VOC		1.41	6.18
			SO ₂		0.27	1.18
69	Old Regeneration He	ater	NO_x	0.19	0.58	
	•		CO		0.04	0.12
			VOC		0.01	0.03
			SO ₂		0.03	0.08
77	4 F MMDtu Amina Da	, bailar	NO		0.00	1.00
77	4.5 MMBtu Amine Re	epollei	NO _x CO		0.60 0.12	1.88 0.38
			VOC		0.12	0.38
			SO ₂		0.03	0.10
			3O ₂		0.09	0.27
78	4.5 MMBtu Amine Re	eboiler	NO_x		0.60	1.88
			CO		0.12	0.38
			VOC		0.03	0.10
			SO_2		0.09	0.27
80	New Glycol Unit		NO _x		0.40	0.63
	11017 Ciyool Oliit		CO		0.08	0.13
			VOC		0.02	0.03
			SO ₂		0.06	0.09
					- * *	
100	Processs Fugitives		VOC		7.41	32.44

⁽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 General Rule 101.1

NO_x - total oxides of nitrogen

SO₂ - sulfur dioxide

CO - carbon monoxide

⁽⁴⁾ Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

EMMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

(5)	The acid gas flare, the new plant emergency flare and the old plant emergency flare shall be used only for emergency (start-
	up, shutdown, upset and maintenance) conditions.

- (6) Annual emissions from EPN's 2, 5 and 69 in any combination shall not exceed the annual emissions allowable of EPN's 5 and 69 together.
- (7) Acid gas incinerator emissions are based on an input to the SRU of a maximum of 1,900 lbs/hr of sulfur.
- (8) This engine shall be permanently removed from service on or before the date on which the new engines or turbines permitted by the March 15, 1991 amendment achieve normal operation.
- (9) These engines shall be operated no more than 2,900 hours per year once the new engines or turbines permitted by the March 15, 1991 amendment achieve normal operation.
- (10) Until such time as the new engines or turbines achieve normal operation, the annual emissions allowable for these engines shall be the same as those for the other 600 HP Clark RA-6 engines.

*	mission rates are based on and the facilities are limited by the following maximum operating sche	edule:

Hrs/day __ Days/week _ Weeks/year __ or Hrs/year 8,760

	Dated	