Permit Numbers 20660 and PSD-TX-795M2

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. Any proposed increase in emission rates may require an application for a modification of the facilities covered by this permit.

Emission	Source	Air Contaminant	Emission Rates *		
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY	
1	Cooper-Bessemer Engine	NO _x	44.40	162.06	
	Model GMVH-12 2,400-hp	CO VOC	6.35 6.35	23.17 23.17	
	(01/03)	SO ₂	0.36	1.31	
		PM_{10}	0.62	2.25	
2	Clark Engine	NO_x	84.58	308.72	
	Model TLAB-6	CO	8.99	32.80	
	2,000-hp	VOC	1.32	4.80	
	(01/03)	SO_2	0.31	1.12	
		PM_{10}	0.53	1.93	
3	Clark Engine	NO_x	84.58	308.72	
	Model TLAB-6	CO	8.99	32.80	
	2,000-hp	VOC	1.32	4.80	
	(01/03)	SO_2	0.31	1.12	
		PM_{10}	0.53	1.93	
4	Ingersoll-Rand Engine	NO_x	18.41	80.64	
	Model IR-SVG-8	CO	0.68	2.98	
	440-hp	VOC	0.48	2.10	
		SO ₂	0.70	3.10	
		PM_{10}	<0.01	<0.01	
5	Ingersoll-Rand Engine	NO_x	18.41	80.64	
	Model IR-SVG-8	CO	0.68	2.98	
	440-hp	VOC	0.48	2.10	
		SO_2	0.70	3.10	
		PM_{10}	<0.01	< 0.01	

Point No. (1) Name (2) Name (3) Ib/hr TPY	Emission	Source	Air Contaminant	<u>Emissior</u>	Emission Rates *		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Point No. (1)	Name (2)	Name (3)	lb/hr	<u>TPY</u>		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	6	Hot Oil Heater	NO_x	1.41	5.15		
Columbridge							
SO2		(01/03)		0.08			
10A		,	SO ₂	0.01	0.03		
Model IR-KVS-8							
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	10A	Ingersoll-Rand Engine	NO_x	59.31	216.49		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			CO	3.49	12.73		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		1,330-hp	VOC	1.76	7.64		
10B Ingersoll-Rand Engine NO _x 59.31 216.49 Model IR-KVS-8 CO 3.49 12.73 1,330-hp VOC 1.76 7.64 (01/03) SO ₂ 0.33 1.20 PM ₁₀ 0.12 0.43 11 Glycol Reboiler NO _x 0.29 1.07 2.5 MMBtu/hr CO 0.25 0.90 (01/03) VOC 0.02 0.06 SO ₂ 0.02 0.01 PM ₁₀ 0.02 0.08 14 Glycol Still Vent Benzene 0.19 0.84 VOC 3.54 15.51 15		•	SO_2	0.33	1.20		
$ \begin{tabular}{lllllllllllllllllllllllllllllllllll$		•		0.12	0.43		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	10B	Ingersoll-Rand Engine	NO _x	59.31	216.49		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		Model IR-KVS-8	CO	3.49	12.73		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		1,330-hp	VOC	1.76	7.64		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		•	SO ₂	0.33	1.20		
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$,					
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	11	Glycol Reboiler	NO _x	0.29	1.07		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$				0.25	0.90		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		(01/03)					
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$							
VOC 3.54 15.51 Cooper-Bessemer Engine NO _x 21.89 59.91 Model GMVH-12C2 CO 32.83 89.87 3,105-hp VOC 10.94 29.96 (10/98) SO ₂ 0.26 1.14							
VOC 3.54 15.51 Cooper-Bessemer Engine NO _x 21.89 59.91 Model GMVH-12C2 CO 32.83 89.87 3,105-hp VOC 10.94 29.96 (10/98) SO ₂ 0.26 1.14	14	Glycol Still Vent	Benzene	0.19	0.84		
Model GMVH-12C2 CO 32.83 89.87 3,105-hp VOC 10.94 29.96 (10/98) SO ₂ 0.26 1.14		, , , , , , , , , , , , , , , , , , , ,					
Model GMVH-12C2 CO 32.83 89.87 3,105-hp VOC 10.94 29.96 (10/98) SO ₂ 0.26 1.14	21	Cooper-Bessemer Engine	NO_x	21.89	59.91		
3,105-hp VOC 10.94 29.96 (10/98) SO ₂ 0.26 1.14				32.83	89.87		
(10/98) SO ₂ 0.26 1.14							
,							
		,					

Point No. (1) Name (2) Name (3) Ib/hr TPY	Emission	Source	Air Contaminant	Emission Rates *		
Model GMVH-12C2	Point No. (1)	Name (2)	Name (3)	lb/hr	TPY	
Model GMVH-12C2						
3,105-hp (10/98)	22					
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$						
23		•				
Cooper-Bessemer Engine NO _x 21.89 59.91		(10/98)	SO ₂	0.26	1.14	
Model GMVH-12C2 CO 32.83 89.87 3,105-hp VOC 10.94 29.96 (10/98) SO2 0.26 1.14 PM ₁₀ 1.09 4.79 26 Hot Oil Heater NO _x 1.95 8.54 32.5 MMBtu/hr CO 3.21 11.73 VOC 0.21 0.77 SO2 0.02 0.08 PM ₁₀ 0.29 1.06 9 Flare NO _x 4.37 (01/03) CO 37.20 VOC 42.82 SO2 50.48 H ₂ S 0.55 VOC 42.82 SO2 50.48 VOC 42.82 VOC 4			PM_{10}	1.09	4.79	
Model GMVH-12C2 CO 32.83 89.87 3,105-hp VOC 10.94 29.96 (10/98) SO2 0.26 1.14 PM ₁₀ 1.09 4.79 26 Hot Oil Heater NO _x 1.95 8.54 32.5 MMBtu/hr CO 3.21 11.73 VOC 0.21 0.77 SO2 0.02 0.08 PM ₁₀ 0.29 1.06 9 Flare NO _x 4.37 (01/03) CO 37.20 VOC 42.82 SO2 50.48 H ₂ S 0.55 VOC 42.82 SO2 50.48 VOC 42.82 VOC 4	23	Cooper-Bessemer Engine	NO _x	21.89	59.91	
$ \begin{tabular}{ c c c c c c c c c c c c c c c c c c c$			CO	32.83	89.87	
$ \begin{tabular}{ c c c c c c c c c c c c c c c c c c c$		3,105-hp	VOC	10.94	29.96	
26 Hot Oil Heater NOx 1.95 8.54 32.5 MMBtu/hr CO 3.21 11.73 VOC 0.21 0.77 SO2 0.02 0.08 PM10 0.29 1.06 9 Flare NOx 4.37 (01/03) CO 37.20 VOC 42.82 SO2 50.48 H2S 0.55 29 Flare (01/03) CO 37.20 VOC 42.82 SO2 50.48 H2S 0.55 29 Flare (01/03) CO 37.20 VOC 42.82 SO2 50.48 H2S 0.55 29 Flare NOx 4.37 SO2 50.48 Flare Flare SO2 50.48 Flare Fla		•	SO_2	0.26	1.14	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$,		1.09	4.79	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	26	Hot Oil Heater	NO _x	1.95	8.54	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$				3.21	11.73	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$						
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$						
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$						
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	9	Flare	NO√	4.37		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$						
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		(02.00)				
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$						
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$						
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	29	Flare	NO.	4 37		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$						
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		(02.00)				
9 & 29 Flares NO _x - 15.85 Combined Annual Limits CO - 135.80 (01/03) VOC 156.31 SO ₂ 184.24						
Combined Annual Limits CO 135.80 (01/03) VOC 156.31 SO ₂ 184.24						
Combined Annual Limits CO 135.80 (01/03) VOC 156.31 SO ₂ 184.24	9 & 29	Flares	NOx	_	15.85	
(01/03) VOC 156.31 SO ₂ 184.24	0 a 20					
SO ₂ 184.24						
		(52.55)				

Emission	Source	Air Contaminant	Emission Rates *		
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY	
30	HP TEG Firebox 3.0 MMBtu/hr (01/03)	NO_x CO VOC SO_2 PM_{10}	0.29 0.25 0.02 0.01 0.02	1.29 1.08 0.07 0.01 0.10	
NGLFUG	Fugitives (4)	VOC H₂S	9.08 0.04	39.76 0.20	
CO2FUG	Fugitives (4) (10/98)	VOC H₂S	9.33 1.27	41.07 5.67	

- (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
 - CO carbon monoxide
 - SO₂ sulfur dioxide
 - PM_{10} particulate matter (PM) less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no particulate matter greater than 10 microns is emitted.
 - H₂S hydrogen sulfide
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

Emission schedule:		are	based	on	and	the	facilities	are	limited	by	the	following	maximum	operating
Hrs/day	Da	ays/w	/eek	'	Weel	ks/y	earc	r Hr	s/year <u>8</u>	3,76	0_			