#### Permit Number 3131A

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**
STK4	Compressor Engine C B GMV-10 1,100-hp	NO <sub>x</sub>	62.99 1.99 0.03 0.34 1.75 0.46	275.90 8.71 0.15 1.49
STK5	Compressor Engine Superior 8G825 667-h	$NO_x$ $PO_0$ $SO_2$ $VOC$ $PM_{10}$ $OOO$ $POOOOO$ $POOOOOOOOOOOOOOOOOOOOO$	14.69 14.69 0.02 1.47 0.45 0.11	64.41 64.41 0.09 6.44 0.48
STK8	Compressor Engine Superior 6G825 600-hp	$NO_x$ $CO$ $SO_2$ $VOC$ $PM_{10}$ 0.09 Formaldehyde	2.65 3.97 0.02 1.32 0.40 0.05	11.59 17.38 0.08 5.79
STK6A, STK6B, STK6C, STK6D	ENG6 Turbine 31,050-hp G.E. Frame	$NO_x$ $SO_2$ $VOC$ $PM_{10}$ 1.21 $Formaldehyde$	90.36 34.23 0.74 6.16 5.30 0.13	395.77 149.91 3.25 26.96

Emission	Source	Air Contaminant	<u>Emissior</u>	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**	
ENG-7A	Turbine 3,842-hp Solar 40-T4700	$NO_x$ $CO$ $SO_2$ $VOC$ $PM_{10}$ 0.23 Formaldehyde	25.41 11.57 0.14 0.90 1.00 0.02	111.30 50.68 0.61 3.93	
INCIN1	Acid Gas Incinerator	$NO_x$ $CO = 0.38$ $VOC = 0.03$ $SO_2 = 441.98$ $PM_{10} = 0.03$ Formaldehyde	0.46 1.68 0.11 1936.00 0.15 0.01	2.00	
FLR1	Acid Gas Flare	see acid gas inciner	ator		
BLRSTK1	West Boiler	$NO_x$ $CO$ $SO_2$ $VOC$ $PM_{10}$ Formaldehyde	1.86 1.56 0.01 0.10 0.14 0.01	8.13 6.83 0.05 0.45 0.62 0.01	
BLRSTK2	East Boiler	NO <sub>x</sub> CO SO <sub>2</sub> VOC PM <sub>10</sub> Formaldehyde	2.57 2.16 0.02 0.14 0.20 0.01	11.25 9.45 0.07 0.62 0.86 0.01	
HTRSTK1	West Glycol Reboiler	NO <sub>x</sub>	1.35	5.93	

Emission	Source	Air Contaminant <u>Emission</u>		Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**	
		CO SO <sub>2</sub> VOC PM <sub>10</sub> Formaldehyde	1.14 0.01 0.07 0.10 0.01	4.98 0.04 0.33 0.45 0.01	
HTRSTK2	East Glycol Reboiler	$NO_x$ $CO$ $SO_2$ $VOC$ $PM_{10}$ Formaldehyde	1.07 0.90 0.01 0.06 0.08 0.01	4.70 3.94 0.03 0.26 0.36 0.01	
HTRSTK3	Regeneration Heater Mole Sieve	$NO_x$ $CO$ $SO_2$ $VOC$ $PM_{10}$ Formaldehyde	0.82 0.69 0.01 0.05 0.06 0.01	3.60 3.02 0.02 0.20 0.27 0.01	
VENT1	Process Vent Stack(5)	VOC	2500.00	14.82	
TNKSLP1	Slop Oil and Condensa	te VOC	0.28	1.23	
E-40	Glycol Storage	VOC	0.01	0.01	
E-41	Fuel Compressor Lube Oil	VOC	0.01	0.01	
E-42	Fuel Compressor Lube Oil	VOC	0.01	0.01	
E-44	Turbine Lube Oil	VOC	0.01	0.01	
E-45	HC Pump Lube Oil	VOC	0.01	0.01	

Emission	Source	Air Contaminant	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**
E-46	Expander Lube Oil	VOC	0.01	0.01
E-47	PB 87 Lube Oil	VOC	0.01	0.01
E-49	Glycol Filter Flush	VOC	0.01	0.01
E-50	PB 87 Used Oil	VOC	0.01	0.01
E-51	Filtered Glycol-1	VOC	0.01	0.01
E-52	Filtered Glycol-2	VOC	0.01	0.01
E-53	Filtered Glycol-3	VOC	0.01	0.01
E-54	Antifreeze Storage	VOC	0.01	0.01
E-55	Amine Storage	VOC	0.01	0.01
E-56	Solvent Storage	VOC	0.01	0.01
E-57	Fire Pump Fuel	VOC	0.01	0.01
E-58	Drip Wastewater Tank	VOC	0.01	0.01
E-59	South Wastewater Tank	VOC	0.01	0.01
E-60	North Wastewater Tank	VOC	0.01	0.01
E-61	Pig Receiver Vent	VOC H₂S	5.95 0.01	1.09 0.01
CT1	CT1 Cooling Tower(6)	VOC	0.17	0.74
FUG1	Plant Fugitives (4)	VOC	9.06	39.70

#### AIR CONTAMINANTS DATA

Emission	Source	Air Contaminant	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**
		H <sub>2</sub> S	0.02	0.11
ICN-SA	Smart Ash Portable Incinerator	$egin{array}{ll} NO_X \ CO \ SO_2 \ VOC \ PM_{10} \end{array}$	0.05 0.21 0.29 0.03 0.41	0.01 0.05 0.07 0.01 0.11

- (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) PM particulate matter, suspended in the atmosphere, including PM<sub>10</sub>
  - PM<sub>10</sub> particulate matter, equal to or 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.
    - VOC volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1

NO<sub>x</sub> - total oxides of nitrogen

SO<sub>2</sub> - sulfur dioxide CO - carbon monoxide

H<sub>2</sub>S - hydrogen sulfide

- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) See Special Condition No. 8
- (6) Emission rate is an estimate and is enforceable through compliance with the applicable special conditions and permit application representations.
- \* Except for EPN ICN-SA, emission rates are based on and the facilities are limited by the following maximum operating schedule:

**	Compliance with annual emission limits is based on a rolling 12-month period.		
	Hrs/dayDays/weekWeeks/year or <u>8,760</u> Hrs/year		
	The emission rates of EPN ICN-SA are based on and the facility is limited by the following maximum operating schedule		
	Hrs/day Days/week Weeks/year or 520 Hrs/year		