#### Permit Number 5452

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.

#### AIR CONTAMINANTS DATA

Emission *	Source	Air Contaminant	<u>Emission</u>	Rates
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
F-A1	Furnace A-West Stack	$NO_{\times}$ $CO$ $PM_{10}$ $VOC$ $SO_{2}$	25.97 1.89 0.24 0.07 0.03	113.67 8.27 1.04 0.29 0.13
F-A2	Furnace A-Center Stack	$NO_{x}$ $CO$ $PM_{10}$ $VOC$ $SO_{2}$	25.97 1.89 0.24 0.07 0.03	113.67 8.27 1.04 0.29 0.13
F-A3	Furnace A- East Stack	$NO_{x}$ $CO$ $PM_{10}$ $VOC$ $SO_{2}$	25.97 1.89 0.24 0.07 0.03	113.67 8.27 1.04 0.29 0.13
F-B	Furnace B Stack	$NO_{x}$ $CO$ $PM_{10}$ $VOC$ $SO_{2}$	84.40 6.17 0.77 0.22 0.09	371.00 27.00 3.37 0.95 0.41
F-CD	Isom Oil and Feed Heater Stack (EPN F-CD) is a Combined Stack for Hea	CO	8.78 7.29 PM <sub>10</sub>	38.46 31.93 0.70

## AIR CONTAMINANTS DATA

Emission *	Source	Air Contaminant	<u>Emissior</u>	n Rates
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
	(97 MMBtu/hr) and	VOC	0.20	0.88
	Heater F-D (38 MMBtu/h	1) SO <sub>2</sub>	1.03	4.51

### AIR CONTAMINANTS DATA

Emission *	Source	Air Contaminant	<u>Emissic</u>	n Rates
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
FLR-1	Isom Acid Gas Flare Stac	ck NO <sub>x</sub> CO VOC SO <sub>2</sub>	0.14 0.71 <0.01 0.50	0.61 3.12 <0.01 2.18
FLR-2	Isom VOC Flare Stack	$NO_{x}$ $CO$ $VOC$ $SO_{2}$	0.03 0.22 0.01 <0.01	0.11 0.98 0.05 <0.01
GLY-1	Glycol Unit Regen Stack	VOC	4.02	17.80
B-08	No. 8 Boiler Stack	$NO_{x}$ $CO$ $PM_{10}$ $VOC$ $SO_{2}$	12.30 18.64 1.01 0.28 0.12	53.87 81.63 4.42 1.25 0.53
PE-1	C2CL4 Storage Building Vent	PCE	0.16	0.70
FUG-FRAC	Frac Plant Fugitives (4)	VOC	31.95	139.94
FUG-IMP	Imports Unit Fugitives (	(4) VOC	8.06	35.34
FUG-ISOM	Isom Unit Fugitives (4)	VOC H <sub>2</sub>	4.92 3.86	21.55 16.92

(1) Emission point identification - either specific equipment
designation or emission point number from a plot plan.
(2) Specific point source names. For fugitive sources use area name
or fugitive source name.
(3) $NO_x$ - total oxides of nitrogen
CO - carbon monoxide
$PM_{10}$ - particulate matter (PM) equal to or less than 10 microns in
diameter. Where PM is not listed, it shall be assumed that no
PM greater than 10 microns is emitted.
VOC - volatile organic compounds as defined in Title 30 Texas
Administrative Code § 101.1
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SO <sub>2</sub> - sulfur dioxide
H <sub>2</sub> - hydrogen
PCE - perchloroethylene
(4) Emissions are an estimate based on component count, factors, and
applicable reduction credits for a leak detection and repair program.
* Emission rates are based on and the facilities are limited by the
following maximum operating schedule:
Hrs/day Days/week Weeks/year or <u>8,760</u>
Hrs/year

Dated\_\_\_\_