EMISSION SOURCES –EMISSION CAPS AND RATES
(INITIAL CAP)
06/06/02 DRAFT

Permit No. 1176/PSD-TX-782

This table lists the maximum allowable emission caps or rates and all sources of air contaminants 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 Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates*
		lb/hr	TPY**
CO Sources			
Combustion Sources:			
HF-201	PX-1 ISOM HEATER H-101	CO	
HF-203	PX-1 REBOILERS H-103/4	CO	
F-204	PX-1 LAF/TDP FURNACE H-501	CO	
F-251	STYRENE STEAM SUPER HEATER HF-201	CO	
BF-151	UTILITIES BOILER B-501	CO	
BF-152	UTILITIES BOILER B-601	CO	
BF-155	UTILITIES GAS FIRED HEAT RECOVERY STEAM GENERATOR/TURBINE	CO	
LPV-152	630 HP DIESEL START-UP ENGINE	CO	
HF-501	MX-1 HEATER H-3401	CO	
HF-451	PX-2 ISOM HEATER H-1101	CO	
HF-452	PX-2 REBOILER H-1102	CO	
HF-453	PX-2 H-REBOILERS 1103/4	CO	
HF-601	MX-2 HEATER H-101	CO	
HF-602	MX-2 HEATER H-602	CO	
HF-603	MX-2 HEATER H-603	CO	
HF-604	MX-2 HEATER H-604	CO	
H-1105	PRU HEATER H-1105	CO	
H-1106	PRU HEATER H-1106	CO	
Flare Systems:			
FL-201	PX-1 FLARE	CO	

FL-401	PX-2 FLARE	CO	
FL-351	POLYB FLARE	CO	
	Emission Cap	**CO**	**75.56**
	342.78		

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates* lb/hr	Emission Rates* TPY**

NO_X Sources

Combustion Sources:

HF-201	PX-1 ISOM HEATER H-101	NO_X		
HF-203	PX-1 REBOILERS H-103/4	NO_X		
F-204	PX-1 LAF/TDP FURNACE H-501	NO_X		
F-251	STYRENE STEAM SUPER HEATER HF-201	NO_X		
BF-151	UTILITIES BOILER B-501	NO_X		
BF-152	UTILITIES BOILER B-601	NO_X		
BF-155	UTILITIES GAS FIRED HEAT RECOVERY STEAM GENERATOR/TURBINE	NO_X		
LPV-152	630 HP DIESEL START UP ENGINE		NO_X	
HF-501	MX-1 HEATER H-3401	NO_X		
HF-451	PX-2 ISOM HEATER H-1101	NO_X		
HF-452	PX-2 REBOILER H-1102	NO_X		
HF-453	PX-2 H-REBOILERS 1103/4	NO_X		
HF-601	MX-2 HEATER H-101	NO_X		
HF-602	MX-2 HEATER H-602	NO_X		
HF-603	MX-2 HEATER H-603	NO_X		
HF-604	MX-2 HEATER H-604	NO_X		
H-1105	PRU HEATER H-1105	NO_X		
H-1106	PRU HEATER H-1106	NO_X		

Flare Systems:

FL-201	PX-1 FLARE	NO_X		
FL-401	PX-2 FLARE	NO_X		
FL-351	POLYB FLARE	NO_X		
	Emission Cap	**NO_X**	**424.28**	**1628.86**

PM_{10} Sources

Combustion Sources:

HF-201	PX-1 ISOM HEATER H-101	PM_{10}	
HF-203	PX-1 REBOILERS H-103/4	PM_{10}	
F –204	PX-1 LAF/TDP FURNACE H-501	PM_{10}	
F-251	STYRENE STEAM SUPER HEATER HF-201	PM_{10}	
BF-151	UTILITIES BOILER B-501	PM_{10}	
BF-152	UTILITIES BOILER B-601	PM_{10}	
BF-155	UTILITIES GAS FIRED HEAT RECOVERY STEAM GENERATOR/TURBINE	PM_{10}	
LPV-152	630 HP DIESEL START UP ENGINE	PM_{10}	
HF-501	MX-1 HEATER H-3401	PM_{10}	
HF-451	PX-2 ISOM HEATER H-1101	PM_{10}	
HF-452	PX-2 REBOILER H-1102	PM_{10}	
HF-453	PX-2 H-REBOILERS 1103/4	PM_{10}	
HF-601	MX-2 HEATER H-101	PM_{10}	
HF-602	MX-2 HEATER H-602	PM_{10}	
HF-603	MX-2 HEATER H-603	PM_{10}	
HF-604	MX-2 HEATER H-604	PM_{10}	
H-1105	PRU HEATER H-1105	PM_{10}	
H-1106	PRU HEATER H-1106	PM_{10}	

Cooling Towers:

CT-451	PX-2, MX-2 COOLING TOWER	PM_{10}	
CT-351	PX-3, POLYB COOLING TOWER	PM_{10}	
	Emission Cap	**PM_{10}**	**29.93**
	131.16		

SO_2 Sources

Combustion Sources:

HF-201	PX-1 ISOM HEATER H-101	SO_2
HF-203	PX-1 REBOILERS H-103/4	SO_2
F-204	PX-1 LAF/TDP FURNACE H-501	SO_2
F-251	STYRENE STEAM SUPER HEATER HF-201	SO_2
BF-151	UTILITIES BOILER B-501	SO_2
BF-152	UTILITIES BOILER B-601	SO_2
BF-155	UTILITIES GAS FIRED HEAT RECOVERY STEAM GENERATOR/TURBINE	SO_2
LPV-152	630HP DIESEL START-UP ENGINE	SO_2

HF-501	MX-1 HEATER H-3401	SO_2		
HF-451	PX-2 ISOM HEATER H-1101	SO_2		
HF-452	PX-2 REBOILER H-1102	SO_2		
HF-453	PX-2 H-REBOILERS 1103/4	SO_2		
HF-601	MX-2 HEATER H-101	SO_2		
HF-602	MX-2 HEATER H-602	SO_2		
HF-603	MX-2 HEATER H-603	SO_2		
HF-604	MX-2 HEATER H-604	SO_2		
H-1105	PRU HEATER H-1105	SO_2		
H-1106	PRU HEATER H-1106	SO_2		
	Emission Cap	**SO_2**	**17.18**	**29.41**

VOC Sources

Combustion Sources:

HF-201	PX-1 ISOM HEATER H-101	VOC
HF-203	PX-1 REBOILERS H-103/4	VOC
F-204	PX-1 LAF/TDP FURNACE H-501	VOC
F-251	STYRENE STEAM SUPER HEATER HF-201	VOC
BF-151	UTILITIES BOILER B-501	VOC
BF-152	UTILITIES BOILER B-601	VOC
BF-155	UTILITIES GAS FIRED HEAT RECOVERY STEAM GENERATOR/TURBINE	VOC
LPV-152	630HP DIESEL START-UP ENGINE	VOC
HF-501	MX-1 HEATER H-3401	VOC
HF-451	PX-2 ISOM HEATER H-1101	VOC
HF-452	PX-2 REBOILER H-1102	VOC
HF-453	PX-2 H-REBOILERS 1103/4	VOC
HF-601	MX-2 HEATER H-101	VOC
HF-602	MX-2 HEATER H-602	VOC
HF-603	MX-2 HEATER H-603	VOC
HF-604	MX-2 HEATER H-604	VOC
H-1105	PRU HEATER H-1105	VOC
H-1106	PRU HEATER H-1106	VOC

Separators:

FS-201	PX-1 SEPARATOR	VOC
S-451	PX-2 SEPARATOR	VOC

Regenerator Vent:

LPV-452	PX-2 REGENERATION VENT	VOC
Flare Systems:		
FL-201	PX-1 FLARE	VOC
FL-401	PX-2 FLARE	VOC
FL-351	POLYB FLARE	VOC
Loading:		
SP-50	MARINE LOADING DOCK 50	VOC
SP-51	MARINE LOADING DOCK 51	VOC
SP-52	MARINE LOADING DOCK 52	VOC
SP-54	HAB TRUCK LOADING 54	VOC
SP-201	PX-1 TRUCK LOADING	VOC
Fugitives:		
FU-201	PX-1 FUGITIVES	VOC
FU-451	PX-2 FUGITIVES	VOC
FU-551	PX-3 FUGITIVES	VOC
FU-152	DOCK FUGITIVES	VOC
FU-210	PX-1 LAF FUGITIVES	VOC
Cooling Towers:		
CT-451	PX-2, MX-2 COOLING TOWER	VOC
CT-351	PX-3, POLYB COOLING TOWER	VOC
Tanks:		
F-411	UTILITIES	VOC
ST-201	PX-1 TANK TF-111	VOC
ST-202	PX-1 TANK TF-112	VOC
ST-203	PX-1 TANK TF-113	VOC
ST-204	PX-1 TANK TF-114	VOC
ST-205	PX-1 TANK TF-115	VOC
ST-206	PX-1 TANK TF-117	VOC
ST-207	PX-1 TANK TF-118	VOC
ST-208	PX-1 TANK TF-120	VOC
ST-209	PX-1 TANK TF-121	VOC
ST-210	PX-1 TANK TF-116	VOC

ST-451	PX-2 TANK F-1117	VOC		
ST-452	PX-2 TANK F-1111	VOC		
ST-453	PX-2 TANK F-1112	VOC		
ST-454	PX-2 TANK F-1113	VOC		
ST-455	PX-2 TANK F-1114	VOC		
ST-457	PX-2 TANK F-1118	VOC		
ST-2113	PX-3 TANK TF-2113	VOC		
ST-2114	PX-3 TANK TF-2114	VOC		
ST-2118	PX-3 TANK TF-2118	VOC		
ST-151	DOCK TANK TK-201	VOC		
ST-152	DOCK TANK TK-202	VOC		
ST-153	DOCK TANK TK-203	VOC		
ST-154	DOCK TANK TK-204	VOC		
ST-155	DOCK TANK TK-205	VOC		
ST-156	DOCK TANK TK-206	VOC		
ST-157	DOCK TANK TK-207	VOC		
ST-159	DOCK TANK TK-208	VOC		
ST-161	DOCK TANK TK-401	VOC		
ST-162	DOCK TANK TK-402	VOC		
	Emission Cap	**VOC**	**284.76**	**394.16**

H_2SO_4 Source

Loading Operation:

SP-54A	DOCK 54A	H_2SO_4		
	Emission Cap	**H_2SO_4**	**0.001**	**0.001**

1) Emission point identification - either specific equipment designation or emission point number from plot plan.
2) Specific point source name.
3) VOC - volatile organic compounds as defined in General Rule 101.1
   NO_x - total oxides of nitrogen
   SO_2 - sulfur dioxide
   PM - particulate matter
   CO - carbon monoxide

* These initial cap emission rates are based on and the facilities are limited by the following maximum

operating schedule:
24 Hrs/day 7 Days/week 52 Weeks/year or 8,760 Hrs/year

** Compliance with annual emission limits is based on a rolling 12-month period.

EMISSION SOURCES –EMISSION CAPS AND RATES
(INTERIM CAP)

Permit No. 1176/PSD-TX-782

This table lists the maximum allowable emission caps or rates and all sources of air contaminants 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 Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates*
		lb/HR	TPY**
CO Sources			
Combustion Sources:			
HF-201	PX-1 ISOM HEATER H-101	CO	
HF-203	PX-1 REBOILERS H-103/4	CO	
F-204	PX-1 LAF/TDP FURNACE H-501	CO	
F-251	STYRENE STEAM SUPER HEATER HF-201	CO	
BF-151	UTILITIES BOILER B-501	CO	
BF-152	UTILITIES BOILER B-601	CO	
BF-155	UTILITIES GAS FIRED HEAT RECOVERY STEAM GENERATOR/TURBINE	CO	
LPV-152	630 HP DIESEL START-UP ENGINE	CO	
HF-501	MX-1 HEATER H-3401	CO	
HF-451	PX-2 ISOM HEATER H-1101	CO	
HF-452	PX-2 REBOILER H-1102	CO	
HF-453	PX-2 H-REBOILERS 1103/4	CO	
HF-601	MX-2 HEATER H-101	CO	
HF-602	MX-2 HEATER H-602	CO	
HF-603	MX-2 HEATER H-603	CO	
HF-604	MX-2 HEATER H-604	CO	
H-1105	PRU HEATER H-1105	CO	
H-1106	PRU HEATER H-1106	CO	
Flare Systems:			
FL-201	PX-1 FLARE	CO	

FL-401	PX-2 FLARE	CO		
FL-351	POLYB FLARE	CO		
	Emission Cap	**CO**	**75.56**	**342.78**

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates* lb/hr	Emission Rates* TPY**

NO_X Sources

Combustion Sources:

HF-201	PX-1 ISOM HEATER H-101	NO_X		
HF-203	PX-1 REBOILERS H-103/4	NO_X		
F-204	PX-1 LAF/TDP FURNACE H-501	NO_X		
F-251	STYRENE STEAM SUPER HEATER HF-201	NO_X		
BF-151	UTILITIES BOILER B-501	NO_X		
BF-152	UTILITIES BOILER B-601	NO_X		
BF-155	UTILITIES GAS FIRED HEAT RECOVERY STEAM GENERATOR/TURBINE	NO_X		
LPV-152	630 HP DIESEL START UP ENGINE		NO_X	
HF-501	MX-1 HEATER H-3401	NO_X		
HF-451	PX-2 ISOM HEATER H-1101	NO_X		
HF-452	PX-2 REBOILER H-1102	NO_X		
HF-453	PX-2 H-REBOILERS 1103/4	NO_X		
HF-601	MX-2 HEATER H-101	NO_X		
HF-602	MX-2 HEATER H-602	NO_X		
HF-603	MX-2 HEATER H-603	NO_X		
HF-604	MX-2 HEATER H-604	NO_X		
H-1105	PRU HEATER H-1105	NO_X		
H-1106	PRU HEATER H-1106	NO_X		

Flare Systems:

FL-201	PX-1 FLARE	NO_X		
FL-401	PX-2 FLARE	NO_X		
FL-351	POLYB FLARE	NO_X		
	Emission Cap	**NO_X**	**405.18**	**1555.56**

PM_{10} Sources

Combustion Sources:

HF-201	PX-1 ISOM HEATER H-101	PM_{10}		
HF-203	PX-1 REBOILERS H-103/4	PM_{10}		
F –204	PX-1 LAF/TDP FURNACE H-501	PM_{10}		
F-251	STYRENE STEAM SUPER HEATER HF-201	PM_{10}		
BF-151	UTILITIES BOILER B-501	PM_{10}		
BF-152	UTILITIES BOILER B-601	PM_{10}		
BF-155	UTILITIES GAS FIRED HEAT RECOVERY STEAM GENERATOR/TURBINE	PM_{10}		
LPV-152	630 HP DIESEL START UP ENGINE	PM_{10}		
HF-501	MX-1 HEATER H-3401	PM_{10}		
HF-451	PX-2 ISOM HEATER H-1101	PM_{10}		
HF-452	PX-2 REBOILER H-1102	PM_{10}		
HF-453	PX-2 H-REBOILERS 1103/4	PM_{10}		
HF-601	MX-2 HEATER H-101	PM_{10}		
HF-602	MX-2 HEATER H-602	PM_{10}		
HF-603	MX-2 HEATER H-603	PM_{10}		
HF-604	MX-2 HEATER H-604	PM_{10}		
H-1105	PRU HEATER H-1105	PM_{10}		
H-1106	PRU HEATER H-1106	PM_{10}		

Cooling Towers:

CT-451	PX-2, MX-2 COOLING TOWER	PM_{10}		
CT-351	PX-3, POLYB COOLING TOWER	PM_{10}		
	Emission Cap	**PM_{10}**	**29.93**	**131.16**

SO_2 Sources

Combustion Sources:

HF-201	PX-1 ISOM HEATER H-101	SO_2		
HF-203	PX-1 REBOILERS H-103/4	SO_2		
F-204	PX-1 LAF/TDP FURNACE H-501	SO_2		
F-251	STYRENE STEAM SUPER HEATER HF-201	SO_2		
BF-151	UTILITIES BOILER B-501	SO_2		
BF-152	UTILITIES BOILER B-601	SO_2		
BF-155	UTILITIES GAS FIRED HEAT RECOVERY STEAM GENERATOR/TURBINE	SO_2		
LPV-152	630HP DIESEL START-UP ENGINE	SO_2		
HF-501	MX-1 HEATER H-3401	SO_2		

HF-451	PX-2 ISOM HEATER H-1101	SO_2		
HF-452	PX-2 REBOILER H-1102	SO_2		
HF-453	PX-2 H-REBOILERS 1103/4	SO_2		
HF-601	MX-2 HEATER H-101	SO_2		
HF-602	MX-2 HEATER H-602	SO_2		
HF-603	MX-2 HEATER H-603	SO_2		
HF-604	MX-2 HEATER H-604	SO_2		
H-1105	PRU HEATER H-1105	SO_2		
H-1106	PRU HEATER H-1106	SO_2		
	Emission Cap	**SO_2**	**17.18**	**29.41**

VOC Sources

Combustion Sources:

HF-201	PX-1 ISOM HEATER H-101	VOC
HF-203	PX-1 REBOILERS H-103/4	VOC
F-204	PX-1 LAF/TDP FURNACE H-501	VOC
F-251	STYRENE STEAM SUPER HEATER HF-201	VOC
BF-151	UTILITIES BOILER B-501	VOC
BF-152	UTILITIES BOILER B-601	VOC
BF-155	UTILITIES GAS FIRED HEAT RECOVERY STEAM GENERATOR/TURBINE	VOC
LPV-152	630HP DIESEL START-UP ENGINE	VOC
HF-501	MX-1 HEATER H-3401	VOC
HF-451	PX-2 ISOM HEATER H-1101	VOC
HF-452	PX-2 REBOILER H-1102	VOC
HF-453	PX-2 H-REBOILERS 1103/4	VOC
HF-601	MX-2 HEATER H-101	VOC
HF-602	MX-2 HEATER H-602	VOC
HF-603	MX-2 HEATER H-603	VOC
HF-604	MX-2 HEATER H-604	VOC
H-1105	PRU HEATER H-1105	VOC
H-1106	PRU HEATER H-1106	VOC

Separators:

FS-201	PX-1 SEPARATOR	VOC
S-451	PX-2 SEPARATOR	VOC

Regenerator Vent:

LPV-452	PX-2 REGENERATION VENT	VOC
Flare Systems:		
FL-201	PX-1 FLARE	VOC
FL-401	PX-2 FLARE	VOC
FL-351	POLYB FLARE	VOC
Loading:		
SP-50	MARINE LOADING DOCK 50	VOC
SP-51	MARINE LOADING DOCK 51	VOC
SP-52	MARINE LOADING DOCK 52	VOC
SP-54	HAB TRUCK LOADING 54	VOC
SP-201	PX-1 TRUCK LOADING	VOC
Fugitives:		
FU-201	PX-1 FUGITIVES	VOC
FU-451	PX-2 FUGITIVES	VOC
FU-551	PX-3 FUGITIVES	VOC
FU-152	DOCK FUGITIVES	VOC
FU-210	PX-1 LAF FUGITIVES	VOC
Cooling Towers:		
CT-451	PX-2, MX-2 COOLING TOWER	VOC
CT-351	PX-3, POLYB COOLING TOWER	VOC
Tanks:		
F-411	UTILITIES	VOC
ST-201	PX-1 TANK TF-111	VOC
ST-202	PX-1 TANK TF-112	VOC
ST-203	PX-1 TANK TF-113	VOC
ST-204	PX-1 TANK TF-114	VOC
ST-205	PX-1 TANK TF-115	VOC
ST-206	PX-1 TANK TF-117	VOC
ST-207	PX-1 TANK TF-118	VOC
ST-208	PX-1 TANK TF-120	VOC
ST-209	PX-1 TANK TF-121	VOC
ST-210	PX-1 TANK TF-116	VOC
ST-451	PX-2 TANK F-1117	VOC
ST-452	PX-2 TANK F-1111	VOC
ST-453	PX-2 TANK F-1112	VOC
ST-454	PX-2 TANK F-1113	VOC
ST-455	PX-2 TANK F-1114	VOC

ST-457	PX-2 TANK F-1118	VOC		
ST-2113	PX-3 TANK TF-2113	VOC		
ST-2114	PX-3 TANK TF-2114	VOC		
ST-2118	PX-3 TANK TF-2118	VOC		
ST-151	DOCK TANK TK-201	VOC		
ST-152	DOCK TANK TK-202	VOC		
ST-153	DOCK TANK TK-203	VOC		
ST-154	DOCK TANK TK-204	VOC		
ST-155	DOCK TANK TK-205	VOC		
ST-156	DOCK TANK TK-206	VOC		
ST-157	DOCK TANK TK-207	VOC		
ST-159	DOCK TANK TK-208	VOC		
ST-161	DOCK TANK TK-401	VOC		
ST-162	DOCK TANK TK-402	VOC		
	Emission Cap	**VOC**	**280.53**	**402.77**

H_2SO_4 Source

Loading Operation:

SP-54A	DOCK 54A	H_2SO_4		
	Emission Cap	**H_2SO_4**	0.001	0.001

(1) Emission point identification - either specific equipment designation or emission point number from plot plan.
(2) Specific point source name.
(3) VOC - volatile organic compounds as defined in General Rule 101.1
NO_x - total oxides of nitrogen
SO_2 - sulfur dioxide
PM - particulate matter
CO - carbon monoxide

* These initial cap emission rates are based on and the facilities are limited by the following maximum operating schedule:
24 Hrs/day 7 Days/week 52 Weeks/year or 8,760 Hrs/year

** Compliance with annual emission limits is based on a rolling 12-month period.

EMISSION SOURCES – EMISSION CAPS AND RATES
(FINAL CAP)
6/06/02 DRAFT

Permit Nos. 1176/PSD-TX-782

This table lists the maximum allowable emission caps or rates and all sources of air contaminants 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 Point No. (1)	Source	Air Contaminant Name (2)	Emission Rates Name (3)
	lb/hr		TPY
CO Sources			
Combustion Sources:			
HF-201	PX-1 ISOM HEATER H-101	CO	
HF-203	PX-1 REBOILERS H-103/4	CO	
F-204	PX-1 LAF/TDP FURNACE H-501	CO	
F-251	STYRENE STEAM SUPER HEATER HF-201	CO	
BF-151	UTILITIES BOILER B-501	CO	
BF-152	UTILITIES BOILER B-601	CO	
BF-155	UTILITIES GAS FIRED HEAT RECOVERY STEAM GENERATOR/TURBINE	CO	
LPV-152	630 HP DIESEL START-UP ENGINE	CO	
HF-501	MX-1 HEATER H-3401	CO	
HF-451	PX-2 ISOM HEATER H-1101	CO	
HF-452	PX-2 REBOILER H-1102	CO	
HF-453	PX-2 H-REBOILERS 1103/4	CO	
HF-601	MX-2 HEATER H-101	CO	
HF-602	MX-2 HEATER H-602	CO	
HF-603	MX-2 HEATER H-603	CO	
HF-604	MX-2 HEATER H-604	CO	
H-1105	PRU HEATER H-1105	CO	

H-1106	PRU HEATER H-1106	CO	

Flare Systems:

FL-201	PX-1 FLARE	CO	
FL-401	PX-2 FLARE	CO	
FL-351	POLYB FLARE	CO	
	Emission Cap 255.34	**CO**	**55.60**

NO_X Sources

Combustion Sources:

HF-201	PX-1 ISOM HEATER H-101	NO_X	
HF-203	PX-1 REBOILERS H-103/4	NO_X	
F-204	PX-1 LAF/TDP FURNACE H-501	NO_X	
F-251	STYRENE STEAM SUPER HEATER HF-201	NO_X	
BF-151	UTILITIES BOILER B-501	NO_X	
BF-152	UTILITIES BOILER B-601	NO_X	
BF-155	UTILITIES GAS FIRED HEAT RECOVERY STEAM GENERATOR/TURBINE	NO_X	
LPV-152	630HP DIESEL START-UP ENGINE		NO_X
HF-501	MX-1 HEATER H-3401	NO_X	
HF-451	PX-2 ISOM HEATER H-1101	NO_X	
HF-452	PX-2 REBOILER H-1102	NO_X	
HF-453	PX-2 H-REBOILERS 1103/4	NO_X	
HF-601	MX-2 HEATER H-101	NO_X	
HF-602	MX-2 HEATER H-602	NO_X	
HF-603	MX-2 HEATER H-603	NO_X	
HF-604	MX-2 HEATER H-604	NO_X	
H-1105	PRU HEATER H-1105	NO_X	
H-1106	PRU HEATER H-1106	NO_X	

Flare Systems:

FL-201	PX-1 FLARE	NO_X
FL-401	PX-2 FLARE	NO_X
FL-351	POLYB FLARE	NO_X

Emission Cap		**NOx**	**142.17**	**512.42**

PM_{10} Sources

Combustion Sources:

HF-201	PX-1 ISOM HEATER H-101	PM_{10}
HF-203	PX-1 REBOILERS H-103/4	PM_{10}
F-204	PX-1 LAF/TDP FURNACE H-501	PM_{10}
F-251	STYRENE STEAM SUPER HEATER HF-201	PM_{10}
BF-151	UTILITIES BOILER B-501	PM_{10}
BF-152	UTILITIES BOILER B-601	PM_{10}
BF-155	UTILITIES GAS FIRED HEAT RECOVERY STEAM GENERATOR/TURBINE	PM_{10}
LPV-152	630 HP DIESEL START_UP ENGINE	PM_{10}
HF-501	MX-1 HEATER H-3401	PM_{10}
HF-451	PX-2 ISOM HEATER H-1101	PM_{10}
HF-452	PX-2 REBOILER H-1102	PM_{10}
HF-453	PX-2 H-REBOILERS 1103/4	PM_{10}
HF-601	MX-2 HEATER H-101	PM_{10}
HF-602	MX-2 HEATER H-602	PM_{10}
HF-603	MX-2 HEATER H-603	PM_{10}
HF-604	MX-2 HEATER H-604	PM_{10}
H-1105	PRU HEATER H-1105	PM_{10}
H-1106	PRU HEATER H-1106	PM_{10}

Cooling Towers:

CT-451	PX-2, MX-2 COOLING TOWER	PM_{10}
CT-351	PX-3, POLYB COOLING TOWER	PM_{10}

	Emission Cap 120.03	**PM_{10}**	**27.40**

SO_2 Sources

Combustion Sources:

HF-201	PX-1 ISOM HEATER H-101	SO_2
HF-203	PX-1 REBOILERS H-103/4	SO_2
F-204	PX-1 LAF/TDP FURNACE H-501	SO_2

Combustion Sources (continued):

F-251	STYRENE STEAM SUPER HEATER HF-201	SO_2		
BF-151	UTILITIES BOILER B-501	SO_2		
BF-152	UTILITIES BOILER B-601	SO2		
BF-155	UTILITIES GAS FIRED HEAT RECOVERY STEAM GENERATOR/TURBINE	SO_2		
LPV-152	630 HP DIESEL START_UP ENGINE	SO_2		
HF-501	MX-1 HEATER H-3401	SO_2		
HF-451	PX-2 ISOM HEATER H-1101	SO_2		
HF-452	PX-2 REBOILER H-1102	SO_2		
HF-453	PX-2 H-REBOILERS 1103/4	SO_2		
HF-601	MX-2 HEATER H-101	SO_2		
HF-602	MX-2 HEATER H-602	SO_2		
HF-603	MX-2 HEATER H-603	SO_2		
HF-604	MX-2 HEATER H-604	SO_2		
H-1105	PRU HEATER H-1105	SO_2		
H-1106	PRU HEATER H-1106	SO_2		
	Emission Cap	**SO_2**	**2.01**	**8.79**

VOC Sources

Combustion Sources:

HF-201	PX-1 ISOM HEATER H-101	VOC		
HF-203	PX-1 REBOILERS H-103/4	VOC		
F-204	PX-1 LAF/TDP FURNACE H-501	VOC		
F-251	STYRENE STEAM SUPER HEATER HF-201	VOC		
BF-151	UTILITIES BOILER B-501	VOC		
BF-152	UTILITIES BOILER B-601	VOC		
BF-155	UTILITIES GAS FIRED HEAT RECOVERY STEAM GENERATOR/TURBINE	VOC		
LPV-152	630 HP DIESEL START_UP ENGINE	VOC		
HF-501	MX-1 HEATER H-3401	VOC		
HF-451	PX-2 ISOM HEATER H-1101	VOC		
HF-452	PX-2 REBOILER H-1102	VOC		
HF-453	PX-2 H-REBOILERS 1103/4	VOC		
HF-601	MX-2 HEATER H-101	VOC		
HF-602	MX-2 HEATER H-602	VOC		
HF-603	MX-2 HEATER H-603	VOC		
HF-604	MX-2 HEATER H-604	VOC		
H-1105	PRU HEATER H-1105	VOC		

H-1106	PRU HEATER H-1106	VOC

Separators:

FS-201	PX-1 SEPARATOR	VOC
S-451	PX-2 SEPARATOR	VOC

Regenerator Vent:

LPV-452	PX-2 REGENERATION VENT	VOC

Flare Systems:

FL-201	PX-1 FLARE	VOC
FL-401	PX-2 FLARE	VOC
FL-351	POLYB FLARE	VOC

Loading:

SP-50	MARINE LOADING DOCK 50	VOC
SP-51	MARINE LOADING DOCK 51	VOC
SP-52	MARINE LOADING DOCK 52	VOC
SP-54	HAB TRUCK LOADING 54	VOC
SP-201	PX-1 TRUCK LOADING	VOC

Fugitives:

FU-201	PX-1 FUGITIVES	VOC
FU-451	PX-2 FUGITIVES	VOC
FU-551	PX-3 FUGITIVES	VOC
FU-152	DOCK FUGITIVES	VOC
FU-210	PX-1 LAF FUGITIVES	VOC

Cooling Towers:

CT-451	PX-2, MX-2 COOLING TOWER	VOC
CT-351	PX-3, POLYB COOLING TOWER	VOC

Tanks:

F-411	UTILITIES	VOC
ST-201	PX-1 TANK TF-111	VOC
ST-202	PX-1 TANK TF-112	VOC
ST-203	PX-1 TANK TF-113	VOC

ST-204	PX-1 TANK TF-114	VOC	
ST-205	PX-1 TANK TF-115	VOC	
ST-206	PX-1 TANK TF-117	VOC	
ST-207	PX-1 TANK TF-118	VOC	
ST-208	PX-1 TANK TF-120	VOC	
ST-209	PX-1 TANK TF-121	VOC	
ST-210	PX-1 TANK TF-116	VOC	
ST-451	PX-2 TANK F-1117	VOC	
ST-452	PX-2 TANK F-1111	VOC	
ST-453	PX-2 TANK F-1112	VOC	
ST-454	PX-2 TANK F-1113	VOC	
ST-455	PX-2 TANK F-1114	VOC	
ST-457	PX-2 TANK F-1118	VOC	
ST-2113	PX-3 TANK TF-2113	VOC	
ST-2114	PX-3 TANK TF-2114	VOC	
ST-2118	PX-3 TANK TF-2118	VOC	
ST-151	DOCK TANK TK-201	VOC	
ST-152	DOCK TANK TK-202	VOC	
ST-153	DOCK TANK TK-203	VOC	
ST-154	DOCK TANK TK-204	VOC	
ST-155	DOCK TANK TK-205	VOC	
ST-156	DOCK TANK TK-206	VOC	
ST-157	DOCK TANK TK-207	VOC	
ST-159	DOCK TANK TK-208	VOC	
ST-161	DOCK TANK TK-401	VOC	
ST-162	DOCK TANK TK-402	VOC	
F-411	UTILITIES TANK 411	VOC	
	Emission Cap	**VOC**	280.28
	404.28		

H_2SO_4 Source

Loading Operation:

SP-54A	DOCK 54A	H_2SO_4	0.001
		0.001	
	Emission Cap	**H_2SO_4**	0.001
			0.001

(1) Emission point identification - either specific equipment designation or emission point number from plot plan.

(2) Specific point source name.

VOC - volatile organic compounds as defined in General Rule 101.1

NO_x - total oxides of nitrogen

SO_2 - sulfur dioxide

PM - particulate matter

CO - carbon monoxide

*These initial cap emission rates are based on and the facilities are limited by the following maximum operating schedule:

24 Hrs/day 7 Days/week 52 Weeks/year or 8,760 Hrs/year

**Compliance with annual emission limits is based on a rolling 12-month period.