#### Permit Numbers 77679, PSDTX1061, and HAP55

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	<b>Emission Ra</b>	ates *
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**
<b>BUBBLING BED BO</b>	ILER - NORMAL OPERATIONS EN	MISSIONS		
BFB-1	Bubbling Fluidized Bed Boiler	$NO_x$	137.0	602.0
	1,374 MMBtu/hr	CO	227.0	903.0
	(approximated 100 MW)	$SO_2$	474.0	277.0
		VOC	20.0	78.0
		PM/PM <sub>10</sub>	44.0	193.0
		$H_2SO_4$	3.6	6.02
		$NH_3$	18.0	55.0
		HCI	97.5	120.4
		Pb	0.1	0.3
		Hg	0.004	0.018
BUBBLING BED BO	OILER - START-UP/SHUTDOWN EN	MISSIONS		
BFB-1	Bubbling Fluidized Bed Boiler	$NO_x$	250.0	
	1,374 MMBtu/hr	CO	227.0	
	(approximated 100 MW)	$SO_2$	283.0	
	,	VOC	20.0	
		PM/PM <sub>10</sub>	43.0	
		$H_2SO_4$	4.3	
		$NH_3$	19.0	
		HCI	97.0	
		Pb	0.1	
		Hg	0.004	

CACTUDDINE	AND DUCT BURNER	NODMAI	ODEDATIONS	EMICCIONIC
GAS IURDINE	AND DUCT BURNER	- NURIVIAL	. UPERA HUNG	

HRSG-1	SW501F Gas Turbine with	$NO_x$	256.0	94.5
		- 7		

Emission	Source	Air Contaminant	Emission F	ates *
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**
	375 MMBtu/hr Duct Burner	CO	219.0	267.0
	(approximately 330 MW)	$SO_2$	7.1	4.9
		VOC	28.0	27.9
		PM/PM <sub>10</sub>	26.9	68.1
		$H_2SO_4$	1.3	0.89
		NH <sub>3</sub>	34.0	46.2
GAS TURBINE AND	DUCT BURNER - START-UP/SHU	TDOWN EMISSIO	NS	
HRSG-1	SW501F Gas Turbine with	$NO_x$	256.0	
	375 MMBtu/hr Duct Burner	CO	5349.0	
	(approximately 330 MW)	SO <sub>2</sub>	7.1	
	,	VOC	514.0	
		PM/PM <sub>10</sub>	26.9	
		$H_2SO_4$	1.3	
		$NH_3$	34.0	
FWPUMP-1	Fire Water Pump Diesel Engine	NO <sub>x</sub>	9.30	0.47
5 2	300 hp	CO	2.00	0.10
	(100 hrs/yr non emergency)	SO <sub>2</sub>	0.62	0.03
	(Lee meny men ennergemeny)	VOC	0.75	0.04
		PM/PM <sub>10</sub>	0.66	0.03
LOGENG-1	Log Chipper Diocal Engine	NO	20.60	14.90
LOGENG-1	Log Chipper Diesel Engine 860 hp	NO <sub>x</sub> CO	20.00 4.70	3.41
	(1440 hrs/yr)	SO <sub>2</sub>	0.69	0.50
	(1440 1113/91)	VOC	0.60	0.30
		PM/PM <sub>10</sub>	0.60	0.44
		1 101/1 10110	0.00	0.43
NG-FUG-1	Natural Gas Piping Fugitives	VOC	0.08	0.35
PROP-FUG-1	Propane Piping Fugitives	VOC	0.84	3.69
NH <sub>3</sub> -FUG-1	Ammonia Fugitives - HRSG-1	NH <sub>3</sub>	0.01	0.02
NH₃-FUG-2	Ammonia Fugitives -BFB	NH₃ 0.01	0.05	
LVCTG-1	Gas Turbine Lube Vent	VOC 0.04	0.19	

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Ra	ates * TPY**
1 OHIL 140. (1)	Name (2)	rvaine (0)	10/111	
LVSTG-1	Steam Turbine 1 Lube Vent	VOC 0.03	0.11	
LVSTG-2	Steam Turbine 2 Lube Vent	VOC 0.03	0.11	
CT-1	Cooling Tower - HRSG	PM PM <sub>10</sub>	1.01 0.58	4.43 2.53
CT-2	Cooling Tower - BFB	PM PM <sub>10</sub>	0.78 0.44	3.40 1.94
TK-DSL-1	Firewater Pump Diesel Tank	VOC	0.01	<0.01
TK-DSL-2	Log Chipper Diesel Tank	VOC	0.02	<0.01
T-ACID	Acid Storage Tank	H <sub>2</sub> SO <sub>4</sub>	<0.01	<0.01
TRK	Truck Unloader/Receiving	PM PM <sub>10</sub>	0.06 0.03	0.07 0.03
WDPROC-1	Fuel Processing Building	PM PM <sub>10</sub>	0.17 0.07	0.24 0.09
LOG-1	Round Log Chipper	PM PM <sub>10</sub>	0.10 0.04	0.06 0.03
TR-1	Transfer of Wood Chips to Conveyor C-1	PM PM <sub>10</sub>	0.08 0.03	0.10 0.03
TR-2	Transfer of Wood Chips from C-1 to Fuel Process Bldg	PM PM <sub>10</sub>	0.08 0.03	0.10 0.03
TR-3	Transfer of Fuel from Boiler Feed Conveyor to Silo Feed Chutes	PM PM <sub>10</sub>	0.06 0.02	0.10 0.03
FUEL-FUG-1	Transfers of Fuel in/near Fuel Storage Area	PM PM <sub>10</sub>	1.08 0.45	1.34 0.56

Emission	Source	Air Contaminant	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**
SDREC-1	Sawdust Receiving	PM PM <sub>10</sub>	0.90 0.32	3.15 1.14
SDPILE-1	Sawdust Storage Pile	PM PM <sub>10</sub>	0.06 0.03	0.07 0.04
FSILO 1	Boiler Feed Silo 1	PM/PM <sub>10</sub>	0.02	
FSILO 2	Boiler Feed Silo 2	PM/PM <sub>10</sub>	0.02	
FSILO 1 and 2	Boiler Feed Silo Combined Annual	PM/PM <sub>10</sub>		0.08
SAND-DC	Sand Silo Dust Collector	PM/PM <sub>10</sub>	<0.01	<0.01
FA-DC	Fly Ash Silo Dust Collector	PM/PM <sub>10</sub>	<0.01	<0.01
BA-DC	Bottom Ash Silo Dust Collector	PM/PM <sub>10</sub>	<0.01	<0.01
FA-FUG	Fly Ash Silo Loading to Trucks Fugitives	PM PM <sub>10</sub>	0.31 0.08	0.43 0.11
BA-FUG	Bottom Ash Silo Loading to Trucks Fugitives	PM PM <sub>10</sub>	<0.01 <0.01	<0.01 <0.01

- (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 an area name or fugitive source name.
- (3) NO<sub>x</sub> total oxides of nitrogen
  - SO<sub>2</sub> sulfur dioxide
  - CO carbon monoxide
  - VOC volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
  - PM particulate matter, suspended in the atmosphere, including PM<sub>10</sub> and PM<sub>2.5</sub>.
  - PM<sub>2.5</sub> particulate matter equal to or less than 2.5 microns in diameter.
  - 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 PM greater than 10 microns is emitted.
  - H<sub>2</sub>SO<sub>4</sub> sulfuric acid mist

# Permit Numbers 77679, PSDTX1061, and HAP55 Page 5

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

	HCI - hydrogen chloride NH₃ - ammonia Pb - lead Hg - mercury
	Emission rates are based on and the gas turbine is limited by the following maximum operating schedule:
	Hrs/dayDays/weekWeeks/year or 6,500 Hrs/year
	Emission rates are based on and the facilities are limited by the following maximum operating schedule, unless operating hours are specifically limited elsewhere in the permit:
	Hrs/dayDays/weekWeeks/year or 8,760 Hrs/year
*	Compliance with annual emission limits is based on a rolling 12-month period.

Dated October 13, 2009