Flexible Permit Numbers 77679 and PSD-TX-1061

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	<u>Emission</u>	Rates *
Point No. (1)	Name (2)		Name (3)	lb/hr	TPY**
. ,	. ,		. ,		
BUBBLING BED B	OILER - NORMAL OPERATIO	NS EN	MISSIONS		
BFB-1	Bubbling Fluidized Bed Boile	er	NO_x	137.0	602.0
	1,374 MMBtu/hr		CO	227.0	903.0
	(approximated 100 MW)		SO_2	474.0	277.0
			20.0	78.0	
		PM/P	M_{10}	44.0	193.0
		H₂SO	₄ 3.6	1.3	
		NH_3	18.0	55.0	
		HCI	97.5	128.0	
		Pb	0.1	0.3	
	OILER - START-UP/SHUTDO				
BFB-1	Bubbling Fluidized Bed Boile	er	NO_x	250.0	
	1,350 MMBtu/hr		CO	227.0	
	(approximated 100 MW)		SO_2	283.0	
			20.0		
		PM/P	- *	43.0	
		H₂SO			
		NΗ ₃	19.0		
		HCI	97.0		
		Pb	0.1		
040 TUDDINE AND	S DUIGT DUIDNED NODMAN	0050	4710110 514100	10110	
	D DUCT BURNER - NORMAL	OPER			160.0
HRSG-1	SW501F Gas Turbine with		NO _x	256.0	168.0
	375 MMBtu/hr Duct Burner		CO	219.0	360.0
	(approximately 330 MW)	\/OC	SO ₂	7.1	6.6
			28.0	37.6	04.0
		PM/P		26.9	91.8
		H ₂ SO		1.2	
		NH_3	34.0	62.2	

Emission	Source	Air	Contaminant	Emission	Rates *
Point No. (1)	Name (2)		Name (3)	lb/hr	TPY**
CAC TUDDING AND	A DUCT BUDNED CTART UP	7/CI II I	TDOWN ENGE	IONE	
HRSG-1	DUCT BURNER - START-UF SW501F Gas Turbine with	75HU	NO _x	256.0	
111(30-1	375 MMBtu/hr Duct Burner		CO	5349.0	
	(approximately 330 MW)		SO ₂	7.1	
	(approximately 200 iiii)	VOC	514.0		
		PM/P		26.9	
		H ₂ SO			
		NH_3	34.0		
FWPUMP-1	Fire Water Pump Diesel Engi	ine	NO_x	9.30	0.47
	300 hp		CO	2.00	0.10
	(100 hrs/yr non emergency)		SO_2	0.62	0.03
		VOC		0.04	
		PM/P	M_{10}	0.66	0.03
LOGENG-1	Log Chipper Diesel Engine		NO _x	20.60	14.90
	860 hp		CO	4.70	3.41
	(1440 hrs/yr)	\/OC	SO ₂	0.69	0.50
		VOC		0.44	0.42
		PM/P	IVI ₁₀	0.60	0.43
NG-FUG-1	Natural Gas Piping Fugitives		VOC	0.08	0.35
1101001	rtatarar Sas r iping r agitives		VOO	0.00	0.00
PROP-FUG-1	Propane Piping Fugitives		VOC	0.84	3.69
NH₃-FUG-1	Ammonia Fugitives - HRSG-2	1	NH ₃	0.01	0.02
NH₃-FUG-2	Ammonia Fugitives -BFB		NH_3	0.01	0.05
LVCTG-1	Gas Turbine Lube Vent		VOC	0.04	0.19
LVSTG-1	Steam Turbine 1 Lube Vent		VOC	0.03	0.11
LVSTG-2	Steam Turbine 2 Lube Vent		VOC	0.03	0.11

Emission	Source	Air	Contaminant	Emission Rates *	
Point No. (1)	Name (2)		Name (3)	lb/hr	TPY**
CT-1	Cooling Tower - HRSG	PM ₁₀	PM 0.58	1.01 2.53	4.43
CT-2	Cooling Tower - BFB	PM ₁₀	PM 0.44	0.78 1.94	3.40
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 ₂ SO ₄	<0.01	<0.01
TRK	Truck Unloader/Receiving	PM ₁₀	PM 0.03	0.06 0.03	0.07
WDPROC-1	Fuel Processing Building	PM ₁₀	PM 0.07	0.17 0.09	0.24
LOG-1	Round Log Chipper	PM ₁₀	PM 0.04	0.10 0.03	0.06
TR-1	Transfer of Wood Chips to Conveyor C-1		PM PM ₁₀	0.08 0.03	0.10 0.03
TR-2	Transfer of Wood Chips from C-1 to Fuel Process Bldg	l	PM PM ₁₀	0.08 0.03	0.10 0.03
TR-3	Transfer of Fuel from Boiler F Conveyor to Silo Feed Chut		PM PM ₁₀	0.06 0.02	0.10 0.03
FUEL-FUG-1	Transfers of Fuel in/near Fue Storage Area	el	PM PM ₁₀	1.08 0.45	1.34 0.56
SDREC-1	Sawdust Receiving	DM	PM	0.90	3.15
SDPILE-1	Sawdust Storage Pile	PM ₁₀	0.32 PM	1.14 0.06	0.07

Emission	Source Air	· Contaminant	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**
	PM ₁₀	0.03	0.04	
FSILO 1	Boiler Feed Silo 1	PM/PM ₁₀	0.02	
FSILO 2	Boiler Feed Silo 2	PM/PM ₁₀	0.02	
FSILO 1 and 2	Boiler Feed Silo Combined Annual	PM/PM ₁₀		0.08
SAND-DC	Sand Silo Dust Collector	PM/PM ₁₀	<0.01	<0.01
FA-DC	Fly Ash Silo Dust Collector	PM/PM ₁₀	<0.01	<0.01
BA-DC	Bottom Ash Silo Dust Collector	PM/PM ₁₀	<0.01	<0.01
FA-FUG	Fly Ash Silo Loading to Trucks Fugitives	PM PM ₁₀	0.31 0.08	0.43 0.11
BA-FUG	Bottom Ash Silo Loading to Trucks Fugitives	PM PM ₁₀	<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_x total oxides of nitrogen
 - SO₂ 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 PM₁₀ and PM_{2.5}.
 - PM_{10} 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.
 - H₂SO₄ sulfuric acid mist
 - HCl hydrogen chloride
 - NH₃ ammonia
 - PB lead

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(4)	Fugitive emissions are an estimate only and should not be considered as a maximum a emission rate.	allowable
*	Emission rates are based on and the facilities are limited by the following maximum schedule:	operating
	Hrs/dayDays/weekWeeks/year or _ <u>8,760</u> Hrs/year	

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

Dated March 1, 2007