

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

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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 Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY
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CASE I: UNTIL MODIFICATION

NATURAL GAS FIRING - 8760 HRS

S4-1	60 MW WESTINGHOUSE MODEL W501-B2 TURBINE ONLY	NOx	163.0	713.9
		CO	91.3	399.7
		SO2	1.0	4.5
		VOC	3.3	14.6
		PM/PM10	11.1	48.7
	60 MW WESTINGHOUSE MODEL W501-B2 TURBINE WITH 215 MMBTU/HR DUCT BURNER	NOx	204.9	897.3
		CO	99.7	436.4
		SO2	1.3	5.7
		VOC	3.6	15.9
		PM/PM10	12.2	53.3
S4-2	60 MW WESTINGHOUSE MODEL W501-B2 TURBINE ONLY	NOx	163.0	713.9
		CO	91.3	399.7
		SO2	1.0	4.5
		VOC	3.3	14.6
		PM/PM10	11.1	48.7
	60 MW WESTINGHOUSE MODEL W501-B2 TURBINE WITH 215 MMBTU/HR DUCT BURNER	NOx	204.9	897.3
		CO	99.7	436.4
		SO2	1.3	5.7
		VOC	3.6	15.9
		PM/PM10	12.2	53.3

COMBINED FIRING - 8040 HRS NATURAL GAS AND 720 HRS FUEL OIL (4) (5)

S4-1	60 MW WESTINGHOUSE MODEL W501-B2 TURBINE ONLY	NOx	244.5	743.6
		CO	92.3	400.3
		SO2	219.3	84.0
		VOC	33.4	25.6
		PM/PM10	30.0	55.5

60 MW WESTINGHOUSE	NOx	350.4	950.4
MODEL W501-B2 TURBINE WITH	CO	100.2	436.9
215 MMBTU/HR DUCT BURNER	SO2	277.1	106.3
	VOC	34.6	27.2
	PM/PM10	41.1	63.9

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Name (3)	lb/hr	Air Contaminant Emission Rates* TPY	
S4-2	60 MW WESTINGHOUSE MODEL W501-B2 TURBINE ONLY	NOx		244.5	743.6
		CO		92.3	400.3
		SO2		219.3	84.0
		VOC		33.4	25.6
		PM/PM10		30.0	55.5
	60 MW WESTINGHOUSE MODEL W501-B2 TURBINE WITH 215 MMBTU/HR DUCT BURNER	NOx		350.4	950.4
		CO		100.2	436.9
		SO2		277.1	106.3
		VOC		34.6	27.2
		PM/PM10		41.1	63.9

CASE II: AFTER MODIFICATION OF TURBINES TO B-6 CONFIGURATION

NATURAL GAS FIRING - 8760 HRS

S4-1	69 MW WESTINGHOUSE MODEL W501-B6 TURBINE ONLY	NOx		143.8	629.9
		CO		105.0	459.7
		SO2		0.4	1.6
		VOC		3.8	16.8
		PM/PM10		12.8	56.0
	69 MW WESTINGHOUSE MODEL W501-B6 TURBINE WITH 124 MMBTU/HR DUCT BURNER	NOx		162.8	713.0
		CO		109.8	480.8
		SO2		0.4	1.8
		VOC		4.0	17.5
		PM/PM10		13.4	58.6
S4-2	69 MW WESTINGHOUSE MODEL W501-B6 TURBINE ONLY	NOx		143.8	629.9
		CO		105.0	459.7
		SO2		0.4	1.6
		VOC		3.8	16.8
		PM/PM10		12.8	56.0
	69 MW WESTINGHOUSE MODEL W501-B6 TURBINE WITH	NOx		162.8	713.0
		CO		109.8	480.8

124 MMBTU/HR DUCT BURNER	SO2	0.4	1.8
	VOC	4.0	17.5
	PM/PM10	13.4	58.6

COMBINED FIRING - 8040 HRS NATURAL GAS AND 720 HRS FUEL OIL (4) (5)

S4-1	69 MW WESTINGHOUSE	NOx	282.0	679.7
	MODEL W501-B6 TURBINE ONLY	CO	106.5	460.2
		SO2	291.8	106.5
		VOC	38.5	29.3
		PM/PM10	34.6	63.8

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Name (3)	lb/hr	Air Contaminant Emission Rates* TPY
	69 MW WESTINGHOUSE	NOx	343.1	777.9
	MODEL W501-B6 TURBINE WITH	CO	111.0	481.2
	124 MMBTU/HR DUCT BURNER	SO2	330.3	120.6
		VOC	39.2	30.3
		PM/PM10	41.0	68.5
S4-2	69 MW WESTINGHOUSE	NOx	282.0	679.7
	MODEL W501-B6 TURBINE ONLY	CO	106.5	460.2
		SO2	291.8	106.5
		VOC	38.5	29.3
		PM/PM10	34.6	63.8
	69 MW WESTINGHOUSE	NOx	343.1	777.9
	MODEL W501-B6 TURBINE WITH	CO	111.0	481.2
	124 MMBTU/HR DUCT BURNER	SO2	330.3	120.6
		VOC	39.2	30.3
		PM/PM10	41.0	68.5
F-1	FUGITIVES (6)	VOC	0.5	2.2
F-2	COOLING TOWER FUGITIVES (6)	Cl2	0.6	2.5

- (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

PM10 - particulate matter less than 10 microns

VOC - volatile organic compounds as defined in General Rule 101.1

NOx - total oxides of nitrogen

SO2 - sulfur dioxide

CO - carbon monoxide

Cl2 - chlorine

- (4) Hourly rate for combined firing based on worst-case fuel.
- (5) Annual limits for combined firing represents 8040 hrs of natural gas and 720 hrs of fuel oil firing.
- (6) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

* Emission rates are based on and the facilities are limited by the following maximum operating schedule:

Hrs/day 24 Days/week 7 Weeks/year 52 or Hrs/year 8760

Revised_____