

Section III: Stack Emission Information for Hazardous Air Pollutants
(Exclude Fugitive Emission Information)

Hazardous Air Pollutants (List Separately) (1)		Stack Emission Rate (@ Rated Capacity) (2)				
		Pounds Per Hour (lb/hr) (a)	Tons per year (TPY) (b)	Concentration Micrograms Per Cubic Meter ($\mu\text{g}/\text{m}^3$) (c)	Other (Units) (d)	Basis (e)
Formaldehyde	uncontrolled potential	2.11E-2	9.24E-2			AP-42
	proposed actual	2.11E-2	7.58E-3	17.99		AP-42
	maximum allowable			43		RCSA 22a- 174-29
1,3 Butadiene	uncontrolled potential	3.70E-3	1.62E-2			AP-42
	proposed actual	3.70E-3	7.70E-4	3.08		AP-42
	maximum allowable			78,571		RCSA 22a- 174-29
Acetaldehyde	uncontrolled potential	9.25E-3	4.05E-2			AP-42
	proposed actual	9.25E-3	3.32E-3	7.91		AP-42
	maximum allowable			12,782		RCSA 22a- 174-29
Benzene	uncontrolled potential	1.27E-2	5.56E-2			AP-42
	proposed actual	1.27E-2	2.65E-3	10.60		AP-42
	maximum allowable			536		RCSA 22a- 174-29
Ethylbenzene	uncontrolled potential	7.40E-3	3.24E-2			AP-42
	proposed actual	7.40E-3	2.66E-3	6.32		AP-42
	maximum allowable			30,890		RCSA 22a- 174-29

Hazardous Air Pollutants (List Separately) (1)		Stack Emission Rate (@ Rated Capacity) (2)				
		Pounds Per Hour (lb/hr) (a)	Tons per year (TPY) (b)	Concentration Micrograms Per Cubic Meter ($\mu\text{g}/\text{m}^3$) (c)	Other (Units) (d)	Basis (e)
Napthalene	uncontrolled potential	8.09E-3	3.54E-2			AP-42
	proposed actual	8.09E-3	1.68E-3	6.74		AP-42
	maximum allowable			3,571		RCSA 22a- 174-29
PAH (soluble Benzene)	uncontrolled potential	1.20E-4	5.26E-4			AP-42
	proposed actual	1.20E-4	2.50E-5	0.10		AP-42
	maximum allowable			0.4		RCSA 22a- 174-29
Coal Tar Pitch Volalites	uncontrolled potential	1.20E-4	5.26E-4			AP-42
	proposed actual	1.20E-4	2.50E-5	0.10		AP-42
	maximum allowable			4		RCSA 22a- 174-29
Propylene Oxide	uncontrolled potential	6.71E-3	2.94E-2			AP-42
	proposed actual	6.71E-3	2.41E-3	5.73		AP-42
	maximum allowable			3,551		RCSA 22a- 174-29
Toluene	uncontrolled potential	3.01E-2	1.32E-1			AP-42
	proposed actual	3.01E-2	1.08E-2	25.69		AP-42
	maximum allowable			26,629		RCSA 22a- 174-29

Hazardous Air Pollutants (List Separately) (1)		Stack Emission Rate (@ Rated Capacity) (2)				
		Pounds Per Hour (lb/hr) (a)	Tons per year (TPY) (b)	Concentration Micrograms Per Cubic Meter ($\mu\text{g}/\text{m}^3$) (c)	Other (Units) (d)	Basis (e)
Xylenes	uncontrolled potential	1.48E-2	6.48E-2			Fuel Analysis
	proposed actual	1.48E-2	5.32E-3	12.65		Fuel Analysis
	maximum allowable			30,819		RCSA 22a- 174-29
Arsenic	uncontrolled potential	9.24E-5	4.05E-4			Fuel Analysis
	proposed actual	9.24E-5	1.93E-5	0.08		Fuel Analysis
	maximum allowable			0.2		RCSA 22a- 174-29
Beryllium	uncontrolled potential	1.85E-5	8.10E-5			Fuel Analysis
	proposed actual	1.85E-5	3.85E-6	0.02		Fuel Analysis
	maximum allowable			0.04		RCSA 22a- 174-29
Cadmium	uncontrolled potential	7.40E-4	3.24E-3			Fuel Analysis
	proposed actual	7.40E-4	1.54E-4	0.62		Fuel Analysis
	maximum allowable			1		RCSA 22a- 174-29
Chromium	uncontrolled potential	2.54E-3	1.11E-2			Fuel Analysis
	proposed actual	2.54E-3	5.29E-4	2.12		Fuel Analysis
	maximum allowable			9		RCSA 22a- 174-29

Hazardous Air Pollutants (List Separately) (1)		Stack Emission Rate (@ Rated Capacity) (2)				
		Pounds Per Hour (lb/hr) (a)	Tons per year (TPY) (b)	Concentration Micrograms Per Cubic Meter ($\mu\text{g}/\text{m}^3$) (c)	Other (Units) (d)	Basis (e)
Lead	uncontrolled potential	3.24E-3	1.42E-2			Fuel Analysis
	proposed actual	3.24E-3	6.74E-4	2.70		Fuel Analysis
	maximum allowable			11		RCSA 22a- 174-29
Manganese	uncontrolled potential	3.70E-2	1.62E-1			Fuel Analysis
	proposed actual	3.70E-2	7.70E-3	30.83		Fuel Analysis
	maximum allowable			71		RCSA 22a- 174-29
Mercury	uncontrolled potential	2.77E-4	1.21E-3			Fuel Analysis
	proposed actual	2.77E-4	5.78E-5	0.23		Fuel Analysis
	maximum allowable			4		RCSA 22a- 174-29
Nickel	uncontrolled potential	1.06E-3	4.64E-3			Fuel Analysis
	proposed actual	1.06E-3	2.21E-4	0.89		Fuel Analysis
	maximum allowable			18		RCSA 22a- 174-29
Selenium	uncontrolled potential	5.78E-3	2.53E-2			Fuel Analysis
	proposed actual	5.78E-3	1.20E-3	4.82		Fuel Analysis
	maximum allowable			14		RCSA 22a- 174-29

Hazardous Air Pollutants (List Separately) (1)		Stack Emission Rate (@ Rated Capacity) (2)				
		Pounds Per Hour (lb/hr) (a)	Tons per year (TPY) (b)	Concentration Micrograms Per Cubic Meter ($\mu\text{g}/\text{m}^3$) (c)	Other (Units) (d)	Basis (e)
Sulfuric Acid	uncontrolled potential	3.97E-2	1.74E-1			Fuel Analysis
	proposed actual	3.97E-2	1.43E-2	33.99		Fuel Analysis
	maximum allowable			71		RCSA 22a- 174-29
	uncontrolled potential					
	proposed actual					
	maximum allowable					
	uncontrolled potential					
	proposed actual					
	maximum allowable					
	uncontrolled potential					
	proposed actual					
	maximum allowable					
	uncontrolled potential					
	proposed actual					
	maximum allowable					

Section IV: Fugitive Emission Information for Listed Pollutants

Pollutant		Emission Rate (@ <i>Rated Capacity</i>) (1)			
		Pounds Per Hour (lb/hr) (a)	Tons Per Year (TPY) (b)	Other (Units) (c)	Basis (d)
Carbon Monoxide (CO)	uncontrolled potential				
	proposed actual				
Volatile Organic Compounds (VOC)	uncontrolled potential				
	proposed actual				
Exempted Volatile Organic Compounds	uncontrolled potential				
	proposed actual				
Hydrocarbons	uncontrolled potential				
	proposed actual				
Nitrogen Oxides (NOx)	uncontrolled potential				
	proposed actual				
Sulfur Oxides (SOx)	uncontrolled potential				
	proposed actual				
Particulate Matter (TSP)	uncontrolled potential				
	proposed actual				
Particulate Matter < - 10 Micrometers (PM ₁₀)	uncontrolled potential				
	proposed actual				
Lead (Pb)	uncontrolled potential				
	proposed actual				
1e. Assumptions:					

Section V: Fugitive Emission Information for Hazardous Air Pollutants

Hazardous Air Pollutants (List Separately) (1)		Emission Rate (@ Rated Capacity) (2)				
		Pounds Per Hour (lb/hr) (a)	Tons per year (TPY) (b)	Concentration Micrograms Per Cubic Meter ($\mu\text{g}/\text{m}^3$) (c)	Other (Units) (d)	Basis (e)
	uncontrolled potential					
	proposed actual					
	maximum allowable					
	uncontrolled potential					
	proposed actual					
	maximum allowable					
	uncontrolled potential					
	proposed actual					
	maximum allowable					
	uncontrolled potential					
	proposed actual					
	maximum allowable					
	uncontrolled potential					
	proposed actual					
	maximum allowable					

Supplemental Application Form Unit Emissions

Applicant Name: **Waterside Power, LLC**
(As indicated on the *Permit Application Transmittal Form*)

DEP USE ONLY	
App. No.:	
EPE No.:	

Section I: General Information

Please complete a separate form for each unit. You may reproduce this form as necessary.

1. Unit Number: **U3**
2. Stack Number: **S3**
3. Control Equipment Number(s): **N/A**

Section II: Stack Emission Information for Listed Pollutants (Exclude Fugitive Emission Information)

Pollutant		(1) Stack Emission Rate (@ Rated Capacity)			
		Pounds Per Hour (lb/hr) (a)	Tons Per Year (TPY) (b)	Other (Units) (c)	Basis (d)
Carbon Monoxide (CO)	uncontrolled potential	30.0	131.40		Vendor
	proposed actual	30.0	10.78		Vendor
Volatile Organic Compounds (VOC)	uncontrolled potential	2.9	12.70		AP 42
	proposed actual	2.9	1.04		AP 42
Hydrocarbons	uncontrolled potential	3.9	17.08		AP 42
	proposed actual	3.9	1.39		AP 42
Nitrogen Oxides (NOx)	uncontrolled potential	40.0	175.20		Vendor
	proposed actual	40.0	8.33		Vendor
Sulfur Oxides (SOx)	uncontrolled potential	0.5	2.06		Mass Balance
	proposed actual	0.5	0.19		Mass Balance
Particulate Matter (TSP)	uncontrolled potential	2.8	12.26		AP-42
	proposed actual	2.8	0.58		AP-42
Particulate Matter < - 10 Micrometers (PM ₁₀)	uncontrolled potential	2.8	12.26		AP-42, assume all PM as PM ₁₀
	proposed actual	2.8	0.58		AP-42, assume all PM as PM ₁₀
Lead (Pb)	uncontrolled potential	0.003	0.01		AP-42
	proposed actual	0.003	0.0006		AP-42

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		Pounds Per Hour (lb/hr) (a)	Tons per year (TPY) (b)	Concentration Micrograms Per Cubic Meter ($\mu\text{g}/\text{m}^3$) (c)	Other (Units) (d)	Basis (e)
Formaldehyde	uncontrolled potential	2.11E-2	9.24E-2			AP-42
	proposed actual	2.11E-2	7.58E-3	17.99		AP-42
	maximum allowable			41		RCSA 22a- 174-29
1,3 Butadiene	uncontrolled potential	3.70E-3	1.62E-2			AP-42
	proposed actual	3.70E-3	7.70E-4	3.08		AP-42
	maximum allowable			76,234		RCSA 22a- 174-29
Acetaldehyde	uncontrolled potential	9.25E-3	4.05E-2			AP-42
	proposed actual	9.25E-3	3.32E-3	7.91		AP-42
	maximum allowable			12,403		RCSA 22a- 174-29
Benzene	uncontrolled potential	1.27E-2	5.56E-2			AP-42
	proposed actual	1.27E-2	2.65E-3	10.60		AP-42
	maximum allowable			520		RCSA 22a- 174-29
Ethylbenzene	uncontrolled potential	7.40E-3	3.24E-2			AP-42
	proposed actual	7.40E-3	2.66E-3	6.32		AP-42
	maximum allowable			29,974		RCSA 22a- 174-29

Hazardous Air Pollutants (List Separately) (1)		Stack Emission Rate (@ Rated Capacity) (2)				
		Pounds Per Hour (lb/hr) (a)	Tons per year (TPY) (b)	Concentration Micrograms Per Cubic Meter ($\mu\text{g}/\text{m}^3$) (c)	Other (Units) (d)	Basis (e)
Napthalene	uncontrolled potential	8.09E-3	3.54E-2			AP-42
	proposed actual	8.09E-3	1.68E-3	6.74		AP-42
	maximum allowable			3,465		RCSA 22a- 174-29
PAH (soluble Benzene)	uncontrolled potential	1.20E-4	5.26E-4			AP-42
	proposed actual	1.20E-4	2.50E-5	0.10		AP-42
	maximum allowable			0.3		RCSA 22a- 174-29
Coal Tar Pitch Volalites	uncontrolled potential	1.20E-4	5.26E-4			AP-42
	proposed actual	1.20E-4	2.50E-5	0.10		AP-42
	maximum allowable			3		RCSA 22a- 174-29
Propylene Oxide	uncontrolled potential	6.71E-3	2.94E-2			AP-42
	proposed actual	6.71E-3	2.41E-3	5.73		AP-42
	maximum allowable			3,445		RCSA 22a- 174-29
Toluene	uncontrolled potential	3.01E-2	1.32E-1			AP-42
	proposed actual	3.01E-2	1.08E-2	25.69		AP-42
	maximum allowable			25,839		RCSA 22a- 174-29

Hazardous Air Pollutants (List Separately) (1)		Stack Emission Rate (@ Rated Capacity) (2)				
		Pounds Per Hour (lb/hr) (a)	Tons per year (TPY) (b)	Concentration Micrograms Per Cubic Meter ($\mu\text{g}/\text{m}^3$) (c)	Other (Units) (d)	Basis (e)
Xylenes	uncontrolled potential	1.48E-2	6.48E-2			Fuel Analysis
	proposed actual	1.48E-2	5.32E-3	12.65		Fuel Analysis
	maximum allowable			29,905		RCSA 22a- 174-29
Arsenic	uncontrolled potential	9.24E-5	4.05E-4			Fuel Analysis
	proposed actual	9.24E-5	1.93E-5	0.08		Fuel Analysis
	maximum allowable			0.2		RCSA 22a- 174-29
Beryllium	uncontrolled potential	1.85E-5	8.10E-5			Fuel Analysis
	proposed actual	1.85E-5	3.85E-6	0.02		Fuel Analysis
	maximum allowable			0.03		RCSA 22a- 174-29
Cadmium	uncontrolled potential	7.40E-4	3.24E-3			Fuel Analysis
	proposed actual	7.40E-4	1.54E-4	0.62		Fuel Analysis
	maximum allowable			1		RCSA 22a- 174-29
Chromium	uncontrolled potential	2.54E-3	1.11E-2			Fuel Analysis
	proposed actual	2.54E-3	5.29E-4	2.12		Fuel Analysis
	maximum allowable			9		RCSA 22a- 174-29