

**BID #: 7295**  
**September 28, 2011 2:00pm**  
**Ultraviolet Disinfection Equipment**

<b>Department: NPU</b>		Ozonia NA LLC 600 Willow Tree Road Leonia NJ 07605		Ozonia NA LLC 600 Willow Tree Road Leonia NJ 07605	
<b>I. Capital Cost</b>		<b>Base Proposal</b>		<b>Alternate</b>	
Supply and delivery of UV System specified herein to the project site including all ancillary equipment, spare parts and special tools and services of Manufacturer's representative.		Lump Sum	\$ 644,000.00	\$	644,000.00
<b>II. Operation and Maintenance Guarantee</b>					
<b>A. General</b>					
<b>Item</b>	<b>Item Description</b>	<b>Units</b>	<b>Guaranteed Value/Cost</b>		<b>Guaranteed Value/Cost</b>
1	Power Consumption (including ballast loss) at average design flow of 6.8 mgd	KW/Lamp	0.3759		0.3058
2	Power Consumption (including ballast loss) at peak design flow of 33 mgd	KW/Lamp	0.3788		0.3788
3	Minimum Lamp Life	hours	12,000		12,000
4	Average operator time to replace each lamp	minutes	2		2
5	Minimum Ballast Life	years	5		5
6	Minimum Wiper Seal Life	years	3		3
7	Minimum Quartz Sleeve Life	years	10		10
8	Lamp Price	\$/lamp	\$ 175.00	\$	175.00
9	Ballast Price	\$/ballast	\$ 250.00	\$	250.00
10	Quartz Sleeve price	\$/sleeve	\$ 55.00	\$	55.00
11	Wiper price	\$/wiper	\$ 6.00	\$	6.00
<b>B. Chemical Usage</b>					
<b>Item</b>	<b>Item Description</b>	<b>Units</b>	<b>Guaranteed Value/Cost</b>		<b>Guaranteed Value/Cost</b>
1	Required Chemical Cleaning Solution	type	Citric Acid		Citric Acid
2	Cost of Chemical Cleaning Solution	\$/gallon	\$ 3.00	\$	3.00
3	Chemical Usage at Average Design Conditions	gal/month	5 pounds/month		5 pounds/month
<b>C. Out-of-Service (Out-of-Channel) Chemical Cleaning</b>					
<b>Item</b>	<b>Item Description</b>	<b>Units</b>	<b>Guaranteed Value/Cost</b>		<b>Guaranteed Value/Cost</b>
1	Number of Modules to be chemically cleaned at Average Design Conditions	modules/ month	2		2
2	Operators time to Chemically Clean Module	minutes/ module	30		30
<b>III. Equipment Description</b>					
<b>A. General</b>					
1	Total number of channels required		3		1
2	Number of channels on-line (average design flow)		1		1
3	Number of channels on-line (peak design flow)		3		1
4	Number of banks/channel		3		3
5	Number of banks/channel on-line (average design flow)		2		1
6	Number of banks/channel on-line (peak design flow)		2		2
7	Number of modules/banks		1		3
8	Number of lamps/module		36		36
9	Number of lamps on-line (average design flow)		54		108
10	Number of lamps on-line (peak design flow)		216		216
11	Total number of lamps		324		324
12	Total number of ballasts		162		162
13	Total number of sleeves and wipers		333 / 333		333 / 333
<b>B. Head Losses &amp; Allowable Water Surface Variation</b>					
1	Total Headloss through UV system at future peak flow from upstream of the first module of lamps to downstream of the last module (inches)		4.99		4.99
2	Total allowable variation in water surface within UV system required to keep all lamps submerged (inches)		8		8
<b>Addendum 1</b>		<b>yes</b>			
<b>Surety</b>		<b>to be provided</b>			