WINLOCK CITY COUNCIL
323 NE First Street / PO Box 777, Winlock, WA 98596
Phone: 360-785-3811 – Fax: 360-785-4378
Hearing Impaired Access (TTY) 711 or 1-800-833-6388
Email: cityclerk@cityofwinlock.com Website: www.cityofwinlock.com

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CITY COUNCIL MEETING
January 8, 2024
6:00 PM

1. **6:00 P.M. – CALL TO ORDER**
2. **DETERMINATION OF QUORUM**
3. **FLAG SALUTE**
4. **APPROVAL OF AGENDA**
5. **OLD BUSINESS**
6. **MAYOR COMMENTS**
7. **COUNCIL COMMENTS**
8. **COMMITTEE REPORTS (Second Meeting of Each Month)**
9. **REPORTS**
   A. Stephen Valentine, Police Chief
   B. Rodney Cecil, Water/Sewer Superintendent
10. **PUBLIC COMMENTS –** *Non-Agenda Items (Limited to 5 Minutes) Please step up and state your full name for the record. Please limit your comments to* **5 minutes.**
11. **CONSENT AGENDA**
    A. Approval of Vouchers for Open Period Ending December 31, 2023, for $18,498.91
    B. Approval of Vouchers for January 8, 2024, for $162,592.62
    C. Approval of Minutes from December 27, 2023
12. **AGENDA**
    A. Elect Mayor Pro-Tem
    B. Ordinance No. 1150, Cannabis Retail Store
    C. Rodney Cecil, Water Sewer – Ultra-Violet (UV) System Upgrade Fund Request
    D. Transfer $400,000 from Timberland Checking 410 Capital Fund and 404 Contingency to LGIP
13. **MISCELLANEOUS**
    A. Lewis County Certified Property Values for 2024
15. **ADJOURNMENT**

(See next page for Zoom meeting link)

https://zoom.us/j/94484249715?pwd=cnVBdXlvckNTSjVGL2U5Yzl5a3JvQT09

City of Winlock is inviting you to a scheduled Zoom meeting.

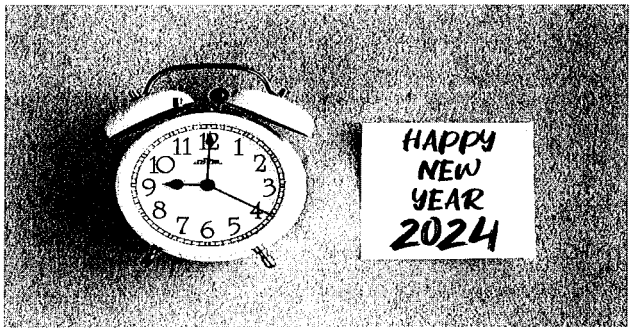
Topic: Council Meeting January 8, 2024
Time: Jan 8, 2024 06:00 PM Pacific Time (US and Canada)

Meeting ID: 944 8424 9715
Passcode: 848538

One tap mobile
*+12532158782,,94484249715#,,,,*848538# US (Tacoma)*
*+12532050468,,94484249715#,,,,*848538# US*

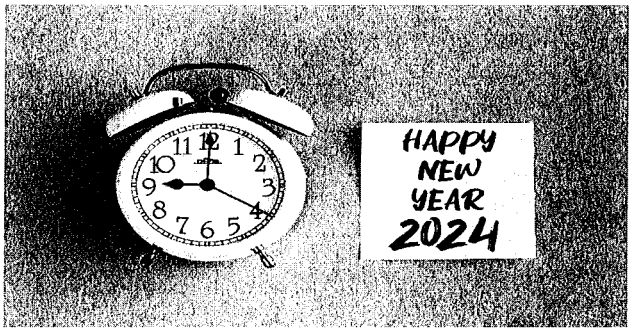
Dial by your location
- *+1 253 215 8782 US (Tacoma)*
- *+1 253 205 0468 US*
- *+1 669 444 9171 US*
- *+1 669 900 9128 US (San Jose)*

Find your local number: https://zoom.us/u/aeFl2BpavM



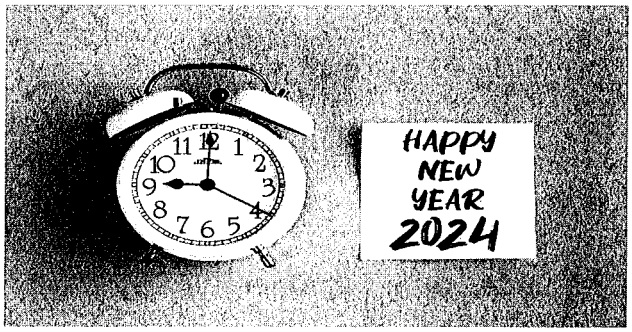
AGENDA ITEM A.

A new Mayor Pro Tem is elected by the City Council annually



AGENDA ITEM B.

As of this writing the draft ordinance has not been submitted.



AGENDA ITEM C.

Rodney Cecil, Water/Sewer

Fund Request

CITY OF WINLOCK

REPORT FOR CITY COUNSEL

Water/Sewer Department

Rodney Cecil

2023

Fund Update

1. We have allotted 410,000 out of our capital improvement for upgrades in the water and sewer system. This was done during the budget cycle. Two projects were initially earmarked for this money. I have added a third project to this list.

    1. UV system upgrade
    2. Hycore replacement at the headworks.
    3. Contribution payment on the engineering for the I&I, and Screw press Project. This part of the project will cost around 450,000 for engineering and planning. 50% of this should be grant and the other 50% would be a loan. My proposal is to pay the city part of the project so that we don't take on another loan. The next phase would be the construction phase in which I am trying to get more grant then loan. That part of the project has not been approved yet and I do not know the exact split.

Would Like to move forward with Item 1 on this list. The UV project This is a estimated cost not to exceed 130,000 (see packet information) Our UV system is old and outdated and some parts are no longer available.

Thank you for your time

Rodney Cecil

Water/Sewer Superintendent

P.O Box 777, Winlock Wa 98596
Plant 360-787-4565
Cell 360-520-5589

CITY OF WINLOCK

Sole Source Justification Form

Item: ~~Click or tap here to enter text.~~ Upgrade to the existing Aquanics UV Disinfection System

1. Describe the item and its function This will upgrad the Existing UV unit

2. The item is a sole source* because:

- ☐ sole provider of a licensed or patented good or service
- ☒ sole provider of items that are compatible with existing equipment, inventory, systems, programs or services
- ☐ sole provider of goods and services for which the City has established a
- ☐ standard** sole provider of factory-authorized warranty service
- ☐ sole provider of goods or services that will meet the specialized needs of the City or perform the intended function (detail below or in an attachment)
- ☐ the vendor/distributor is a holder of a used item that would represent good value and is advantageous to the City (attach information on market price survey, availability, etc.)

3. What necessary features does this vendor provide which are not available from other vendors? Be specific. This is an upgrade to an existing ~~the~~ piece of equipment already in service.

4. What steps were taken to verify that these features are not available elsewhere?

- ☐ other brands/manufacturers were examined (list phone numbers and names, and explain why these were not suitable): Click or tap here to enter text.
- ☐ other vendors were contacted (list phone numbers and names, and explain why these were not suitable): Click or tap here to enter text.
- ☒ other (please explain): Click or tap here to enter text. This is an upgrade

* *Sole Source: only one (1) vendor possesses the unique and singularly available capability to meet the requirement of the solicitation.*

** *Procurements of items for which the City has established a standard by designating a brand or manufacturer or by pre-approving via a testing shall be competitively bid if there is more than one (1) vendor of the item.*

Department: WASTE WATER DEPARTMENT

Department Contact: Rodney Cecil **Phone:** 360-520-5589

Requested Vendor: AQUIONICS / Gobel Sampson

Vendor's Address: 4215 Stuart Andrew blvd Suite E
Charlotte, NC 28217

Vendor Contact: Amber Hudson **Phone:** 980-256-5700

Cost Estimate: 133,000

If the cost of the sole source procurement is greater than the appropriate procurement threshold for department action, immediately contact the City Clerk and/or City Attorney.

My department's recommendation for sole source is based upon an objective review of the good/service being required and appears to be in the best interest of the City. I know of no conflict of interest on my part or personal involvement in any way with this request. No gratuities, favor, or compromising action have taken place. Neither has my personal familiarity with particular brands, types of equipment, materials or firms been a deciding influence on my request to sole source this purchase when there are other known suppliers to exist.

Signature of Requestor — Date: 01-2-24

Signature of Mayor — Date: 1/3/24

formerly Aquionics, Berson, Hanovia and Orca GmbH

Quote No: 9-19-23AH67
Date: September 21, 2023

Company: City of Winlock

Attention: Rodney Cecil / John Simon (Goble Sampson)

From: Amber Hudson - Municipal Sales Manager

Project: City of Winlock - WA Upgrade

Parameters:

Water Evaluation:	70	% transmittance in a 1cm light path at 253.7nm
Flowrate:	780	GPM each chamber
TSS:	<5	mg/l
Influent Fecals:	<2,000	fc/100 ml
Effluent Fecals:	<2	fc/100 ml
Average Dose:	30	mJ/cm^2

Equipment Selection & Design:

Unit: ProLine WW IL 1000
Quantity: 2
Configuration: parallel
Each Unit: 780 GPM each chamber

Lamp Type: B2520E+ Medium Pressure
No. Lamps per Unit: 4
Lamp Configuration: Horizontal and perpendicular to flow

Included Features:
- Each unit comes complete with an automatic quartz cleaning system, UV sensor, temperature sensor, access hatch and automatic lamp variable power control via electronic ballasts (35-100% output)
UltraWipe: 2x food-grade automatic wiper mechanism (eliminates manual cleaning)
Spare Parts: 4 Lamps, 4 Sleeves, 8 O-Rings, 4 Wiper Rings
On-Site Services: Commissioning Start-up, Operator Training, Functional Testing 2 trips / 4 days each

Power & Controls:
- Standard power and controls are housed in one wall mounted epoxy coated steel cabinet per chamber. Cabinets are NEMA 12 rated, suitable for indoor installation.

Electrical Data:

480/277 (wye) V
3 L+N phase
60 Hz

Connections: 8 " ANSI flanges

Budget Price: $99,686.00 (includes freight to site).

Terms:
-Quote valid for 120 days.
-Freight is ocean with CPT (Carriage Paid to) Terms
-Aquionics standard terms and conditions apply (available upon request).
-Delivery approx. 10-14 weeks.

AQUIONICS INC
4215 STUART ANDREW BLVD, SUITE E
CHARLOTTE, NC 28217
T: +1 (980) 256 5700 E: SALES@AQUIONICS.COM
WWW.AQUIONICS.COM

PERSON, HANOVIA & AQUIONICS WORKING TOGETHER AS PART OF THE HALMA GROUP.

formerly Aquionics, Berson, Hanovia and Orca GmbH

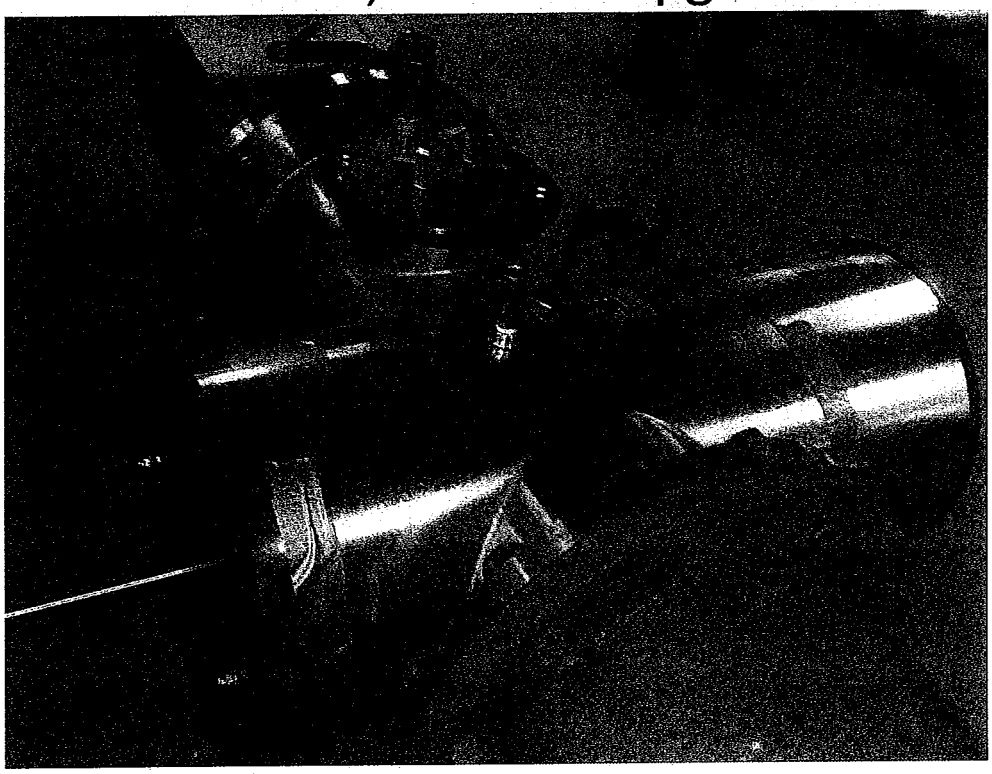
Jan 2024 end
7,497 TAX
107,185
25,000 chec
132,185

NUVONIC

formerly Aquionics, Berson, Hanovia and Orca GmbH

Nuvonic UV System Proposal For:

Winlock, WA - UV Upgrade



September 18, 2023

Project: Winlock, WA WWTP - Ultraviolet Disinfection Upgrade and Refurbishment (2 Units)

Nuvonic UV is pleased to work with you on our equipment modifications and recommends upgrading the InLine 1000 units at your WWTP with new combined Control / Power Panels as well as completely rebuilding the existing UV chambers to optimize your disinfection system for many years to come.

The current UV units were installed in 2008 and they are near the end of their expected service life. Replacement parts for the electric control/power panels are either very expensive or becoming obsolete, which will require costly re-engineering to keep the units functioning.

It is our recommendation to replace the cabinets as well as reactor internals to bring all equipment up to the latest technology standards without having to publicly bid an entirely new UV system and incur costly engineering fees nor go through intensive modeling to satisfy state regulators.

In addition to bringing this unit up to current equipment levels, the new control/power panels provide opportunities for energy savings by allowing more efficient control. The following items are advantages to this proposed upgrade:

- **Improvements to the older tactile keypad controllers by providing a more user-friendly PLC / HMI which allows use of a flow signal to adjust the power to the UV lamps.**
- **An Electronic Lamp Driver (ELD) option will provide variable lamp turndown and energy savings for plants with diurnal flow reductions.**
- **The refurbishment of the UV Chamber is only available from Nuvonic, Inc. which provides factory parts and a full warranty for the new components.**
- **While refurbishing the existing UV Chamber in place, there is no need for any changes to the piping thus providing an additional capital cost savings.**
- **All service work to rebuild the chambers and assure the new Control/Power Panels are installed and operating will be done by our Nuvonic Factory Service Technicians.**

The Electronic Lamp Driver (ELD) is included in the quoted system. By upgrading the InLine 1000 unit to an Electronic Lamp Driver (ELD) power, the lamp output can be varied from 100 to 35% in stepless 1% increments (11 kW to 3.85 kW) compared to the current transformers with three discrete power settings.

Replacing the Control/Power Panel and refurbishing the UV chamber, which is approaching the end of its expected service life, will assure continued operation at peak efficiency, thereby helping to avoid operation outside of the plant's permit. Not only are the new units more efficient but the maintenance cost and replacement parts availability will be improved to current standards.

Feel free to contact me with any questions and concerns as you budget for this modification and need any assistance to arrange a smooth transition to the newest design available in the industry.

Sincerely,

Amber Hudson

Amber Hudson – Regional Manager - Western North America
Cell # (980) 219-2954
Office (980) 256 - 5674
amber.hudson@nuvonicuv.com

Project Name:	Winlock, WA WWTP UV Upgrade	
Contact Info:	Amber Hudson Nuvonic UV P: 980-219-2954 E: amber.hudson@nuvonicuv.com	John Simon Goble Sampson & Associates P: (425) 736-4584 E: jsimon@goblesampson.com
Quote:	9-18-23AH67	
Date:	September 18, 2023	

Project Scope of Supply:

The scope of work is intended to upgrade each of the two existing Nuvonic (Aquionics) InLine 1000 (SN 11392, 11393) UV systems in order to enhance the functionality while maintaining disinfection to address reliability and obsolescence issues with instrumentation and controls.

Included in the scope of supply are new control/power cabinets with electronic ballasts, and Allen Bradley mirco850 PLC based controllers to enhance your long-term communication to plant SCADA and remote alarm systems via Ethernet connectivity.

All of the existing UV disinfection chambers will be rebuilt with a new wiper yoke, seals and connectors, new wipers, a new wiper drive motor to maintain the mechanical/chemical cleaning, quartz sleeves, new UV lamps matched to the ELDs and a certified absolute sensor in a new drywell sensor cell.

A Nuvonic Service Technician will be on-site for 4 days for one reactor (4 days for the other reactor at another scheduled date), after your team or subcontractor removes and replaces the UV panel with a new one and pulls the wires, we provide to it. The technician will provide direction and technical support for the electrical and mechanical contractors performing the equipment removal and replacement via phone or MS Team before they arrive. The technician will do the servicing/rebuilding of the UV disinfection chamber. They will also provide system start-up/commissioning and training before testing to insure it is functional and then will return after the backup system is replaced in sequence to work on those systems.

Design Parameters

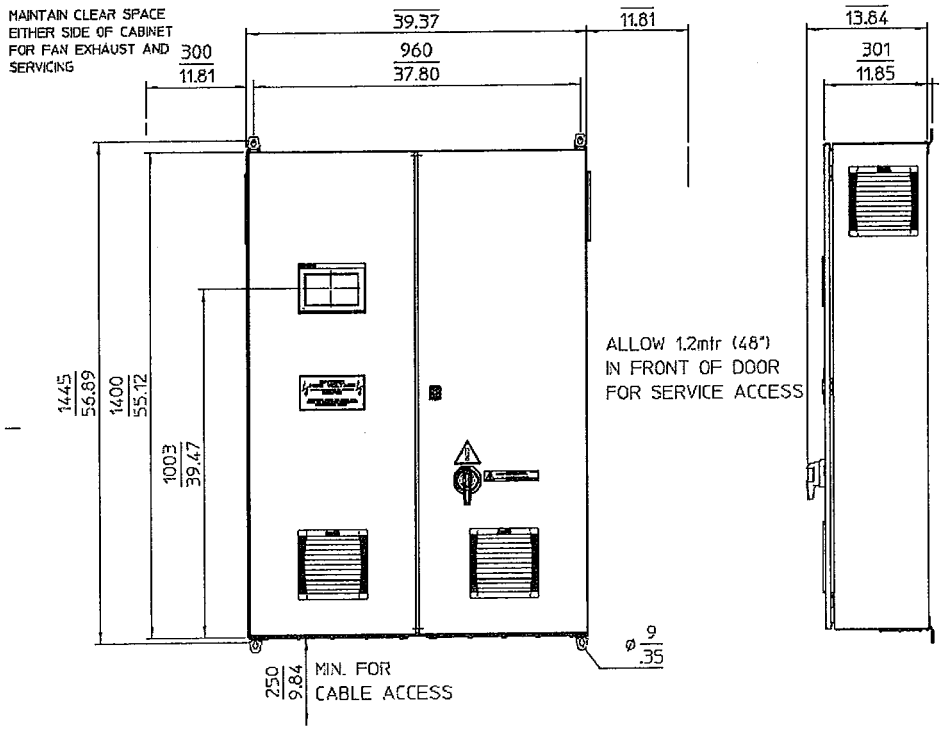
Site Parameters that will be used to program new controller are:

- UVT > 70%
- Flow = 780 gpm (per chamber)
- TSS < 5 mg/l
- Influent < 2,000 fc/100 ml
- Effluent < 2 fc/100 ml
- Average Dose > 30 mJ/cm^2

1. **Electrical / Control Enclosures**

Each disinfection system is supplied with a new combined wall mounted enclosure in an epoxy coated free standing steel cabinet. The cabinet has a mechanical locking mechanism that secures the entire length of the door. In additional to the mechanical lock, an electrical isolation switch that prevents opening the front door when the unit is turned on. The power/control enclosure will contain an OIT mounted at eye level on the front panel. All information on system status including warnings and alarms will be presented on the operator interface. The power/control enclosure will have the ability to operate the automatic cleaning mechanism. See enclosed drawing 820264-001-03 for details.

2.



Other Equipment

Temperature Sensor: A new chamber mounted temperature sensor is supplied with each UV chamber for protection against heat buildup under no or low flow conditions. The UV system will shut down and alarm in the event of a heat buildup in the chamber.

3. SCOPE OF SUPPLY – Provided by Nuvonic

Item Number	Description	Quantity
1	New Control/Power Cabinet: • Wall mounted 55.12 x 39.4 x 11.85" (HxWxD) • NEMA 12 Epoxy Coated Steel – Indoor Installation • Electronic Lamp Driver/Ballasts (35 to 100% output) • Forced Fan Cooling • AB 850 PLC controller with Ethernet • 7-inch touch screen display/HMI menu • Includes: Alarms, warnings, manual wipe button • **480/277V (wye), 3Ph+N, 60 Hz supply** • UL508A Labeling	2
3	Upgrade the existing UV Disinfection Chambers • Install new Wiper Yoke Assembly with new Wipers • Install new Wiper Drive Motor • Install new chemical pump and tubing for Ultrawipe • Install new Quartz Sleeves • Install new lamps (B2520E+) • Install new surface mount temp sensor • Install new limit switches • Check that all mechanical and electrical components are in good serviceable condition that will be warranted for one year	2
4	Cabling & Wiring • 30 ft. (10 m) -If a longer cable set is required let us know the actual length required and we will provide the optional additional cable length adder in a revised proposal.	2 sets
5	New One Year Warranty	Included
6	Freight to jobsite incl. packaging of all the components supplied by Nuvonic	Included
7	On-site Service - 2 Trips of 4 days each includes (8 days on-site total): • System Commissioning	Included

	• Functional Testing • Training	
8	Upgraded Intensity Sensors: • Calibrated/certified dry sensor with sensor adaptor and window • Automatic Sensor Cleaning	Included
9	Recommended Spare Parts (Enough for one unit): • 4 UV Lamps (B2520E+) • 4 Quartz Sleeves • 8 O-rings • 4 Wiper Rings	Included

4. **SCOPE OF SUPPLY – Provided by Contractor**

Item Number	Description
1	• Modification and preparation of civil structures
2	• Concrete work including foundations, bases, below slab piping, floor openings, sumps, basins, grout, trenches and concrete embedment.
3	• Labor removal of existing cabinets and labor for installing the new equipment and instrumentation provided.
4	• Pulling new wire through existing or new conduit for upgraded units and new cabinets
5	• **New cabinets required a 480/277 V (wye) power feed with 3 phase+ neutral wire.**
6	• Unloading of all the components supplied by Nuvonic.
7	• Commissioning lab fees or other start-up performance costs
8	• Placement in storage of all the components supplied by Nuvonic if required; storage to be dry, clean and environmentally controlled

5. Price Summary

ITEM NO.	QTY	DESCRIPTION	PRICES
1 - 9	2	Upgrade UV System IL 1000 as defined in scope of supply in sequence	**$109,586**

See New Price

6. Commercial Terms:

1. Ocean Freight (CPT – Carriage Paid To) to jobsite is included in amount. Offloading and arrangement of the equipment is not included.
2. Price quoted is budget and valid for 60 days.
3. Price is based upon the following payment terms (net 30 days):
    a. 90% upon shipment of equipment from factory
    b. 10% upon UV commissioning and system acceptance
    c. If start-up is not completed within 6 months of UV delivery, balance of PO will be due.
    d. 6 months after UV delivery, if start-up is not complete, Nuvonic reserves the right to adjust start-up costs if costs have risen more than 5% since time of PO issuance.
4. Submittals (if required) are available within 2-4 weeks after acceptance of purchase order.
5. Equipment shipment is within 10 – 14 weeks after approved submittals.
6. Nuvonic does not provide for any process utility requirements including electrical power.
7. This pricing and scope is based upon NUVONIC General Terms of Business.
8. No taxes, of any kind have been included in this budget proposal.

UV System Warranty

Nuvonic warrants the UV equipment for 18 months from date of dispatch or 1 year from date of UV commissioning, whichever occurs first. The products are warranted against defects in material and workmanship. They will perform in accordance with the specification of this offer, assuming proper installation, care and handling according to operations manual.

Consumables such as lamps and wiper rings etc. are excluded as they have their own warranty. This warranty is subject to the following conditions:

- The equipment is operated and maintained in accordance with the Operation and Maintenance Manual
- All consumables and spare parts used must be genuine Nuvonic parts.
- All service and repair work are done by Nuvonic Service Technicians or an Nuvonic authorized agent.

Normal wear and Corrosion are excluded from the warranty

Lamp Warranty

We manufacture and procure the most advanced and reliable medium pressure and amalgam UV lamps currently available for commercial use. They are developed from unique research programs, using the finest materials available. Occasionally a small number of these lamps can fail prematurely. We operate a fully traceable manufacturing process, and so it is important that we are informed of lamp failures. You will be asked several questions to help us determine why the lamp failed. Your statutory rights are not affected by this document.

Any claim on this warranty will require the return of the lamp to Nuvonic for inspection and approval, according to the general conditions listed below. You must include the UV vessel model, UV vessel serial number and lamp serial number, lamp position, lamp installation date, failure date, and hours of operation from the system's hour counter, lamp runtime hours and number of lamp starts.

The warranty we offer is as follows:

Medium Pressure Lamps (InLine Systems)

- ***Continuous Operation (24 hours per day)***

Lamps installed in the system are guaranteed to operate for a minimum of 2,000 hours. Replacements will be prorated on the following basis pending the lamp and ballast type:
Electronic Ballast/Lamp Systems 0-2000 hours no charge
2001-5000 hours 25% cost of replacement
5001-7000 hours 50% cost of replacement
7001-10,000 hours 75% cost of replacement

- **Intermittent Operation (1-6 lamp starts per 24 hours of operation)**

Lamps installed in the system are guaranteed to operate for a minimum of 1,000 hours. Lamp operations will be guaranteed against failure under the following conditions:

1-6 lamp starts per 24 hours of operation will be prorated on the following basis:
0-1000 hours no charge
1001-2000 25% cost of replacement
2001-3000 50% cost of replacement
3001-4000 75% cost of replacement

Note:
1. **More than 6 lamp starts per 24 hours of operation, no warranty is offered.**
2. **Failure to provide requested data in paragraph 2 will invalidate warranty claim**
3. **Lamps beyond 4 years age, determined by manufacture date, no warranty is offered**

Standard General Warranty

We warrant all equipment to be free from defect for a period of 18 months from the date of shipment or 12 months from the start-up date of service (commission date), whichever is sooner. Any defective component/part will be replaced at no cost subject to the limitations elsewhere in this document. The total liability of Nuvonic is limited to the cost of materials supplied. The provision of labor is not warranted.

5 Year General Warranty

Nuvonic offers a free extended warranty of 5 years from commissioning or 6 years from date of shipment, whichever is sooner, provided that (i) the warranty registration form has been fully completed and returned to Nuvonic within four weeks of commissioning, (ii) the customer has entered into a service and maintenance agreement with Nuvonic or a Nuvonic approved service provider and can provide documentation of at least one service visit per year, and (iii) the system has been operated and maintained according to the service requirements set out in the Nuvonic system manual, including replacement of consumable items at the correct interval with genuine Nuvonic replacements.

Warranty Exemptions

Exemptions from the warranty are breakage in transit, physical damage, connection breakage, connection to an incorrect power supply, or the use within the system of any non-OEM parts. Additional exemptions are lamp failure due to overheating caused by, lack of water, or minimal flow rates while system is operating. System must be operating according to Nuvonic Installation and Operating Instructions. Installation of the lamp to commence within 2 years of manufacturing as indicated by the lamp serial number. Warranty cannot be claimed on lamps more than 4 years after manufacturing as indicated by the lamp serial number.

TRAVERS ELECTRIC
ELECTRICAL CONTRACTORS SINCE 1969

TRAVERS ELECTRIC, INC.
TRAVEEI809RZ

122 STURDEVANT RD.
CHEHALIS, WA 98532
OFFICE 360-748-0059
FAX 360-748-7395

October 10, 2023

To: Winlock Water & Sewer
Attn: Rodney Cecil
Re: UV Panel Upgrade

Rodney,

Travers Electric submits the below estimate for the following work at the above project site:

1. Install one UV cabinet provided by others.
2. Extend control wiring to new UV cabinet.
3. Extend 480-volt feed to new cabinet.
4. Estimate assumes control wiring diagram from cabinet manufacturer.
5. If awarded, this project will be billed via time and materials.

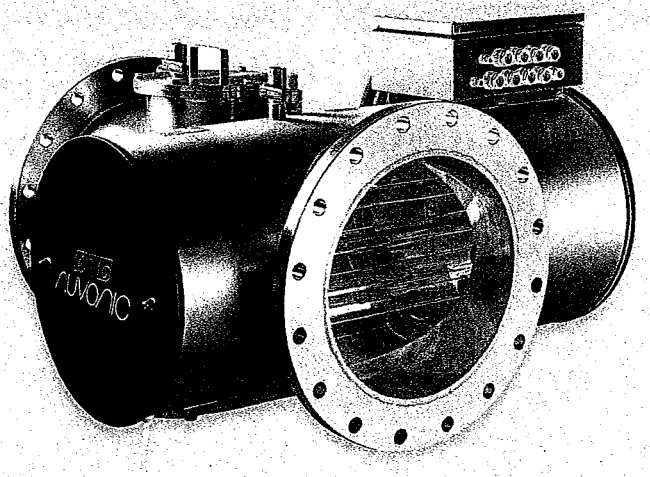
Total Estimate - $10,750.00* plus State Electrical Permit & Sales Tax
*Quoted prices valid for 15 days.

Thank you for your consideration on this project.

Brandon Lindsey
Estimator

nuvonic

formerly Aquionics, Berson, Hanovia and Orca GmbH

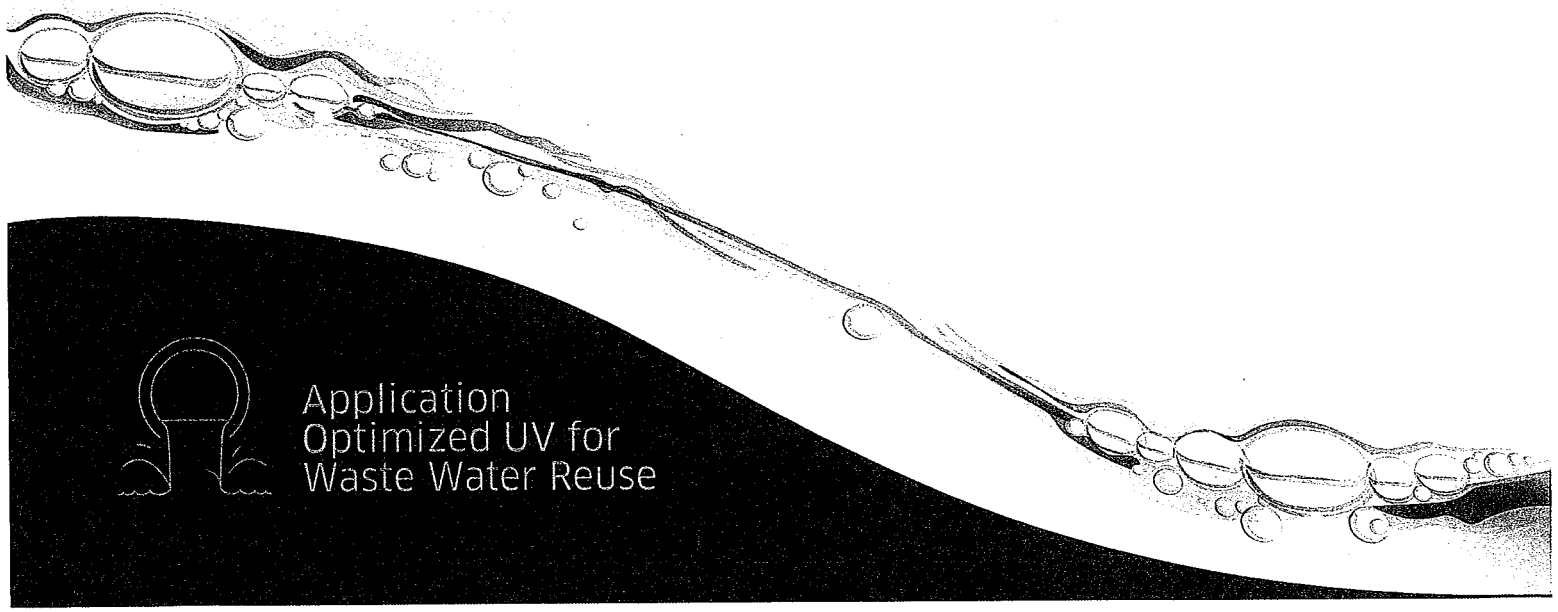


PROLINE WW IL

UV TREATMENT FOR WASTE WATER

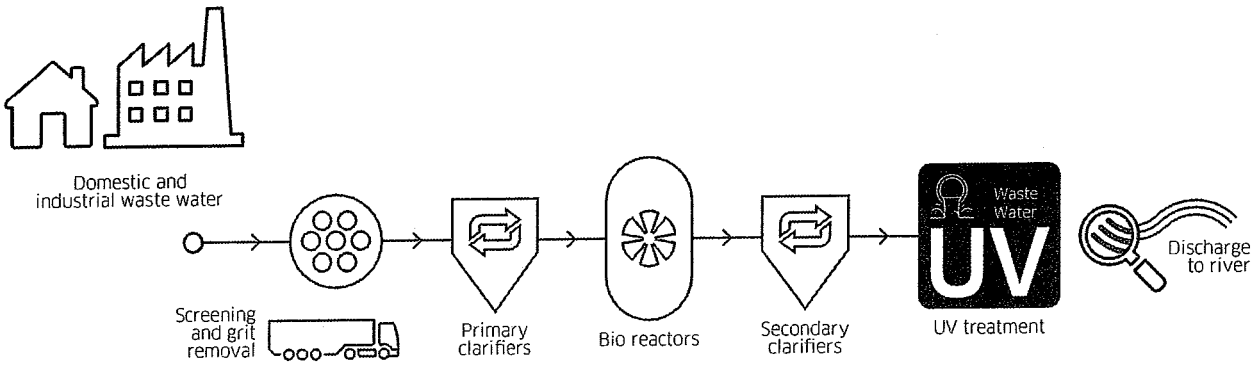
Our **ProLine WW IL** UV systems for UV treatment of waste water are suited to low UVT applications and can be deployed after clarifiers, sand filters and membranes. UV is growing in popularity as it provides a proven alternative to Chlorination, avoiding the generation of potentially harmful by-products.

The ProLine WW IL are compact medium pressure lamps systems and are intended as a cost effective treatment for standard discharge applications.



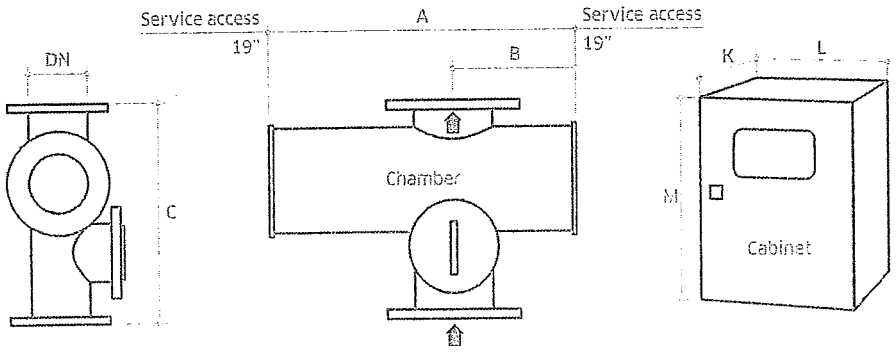
Application Optimized UV for Waste Water Reuse

POTENTIAL LOCATION OF THE PROLINE WW IL™ IN WASTE WATER TREATMENT PLANT PROCESS



KEY FEATURES	WHAT IT GIVES YOU	BENEFITS FOR YOU
INTELLIGENCE		
Dry DVGW approved UV sensor measuring active wavelengths	Continuous verification of performance with real time dose reading and in-built low dose warning	Easy to monitor
Flow meter input	Dose reading based on actual flow conditions when meter is connected	Accurate UV dose reading guaranteed under wide range of operating conditions
OPTIMIZATION		
UV waste water treatment	Protects the environment from harmful microbiological contamination	No chemicals
Designed for municipal and industrial reuse and waste water applications	Flanged connections, high standard internal finish	Designed to international standards
	Automatic wiper (quartz cleaning)	Self cleaning to maintain performance
	*Ultrawipe (chemically enhanced wiper)	Clean quartz sleeves despite high fouling potential
INTEGRATION		
Compact design	Can be retrofitted to existing process	Easy integration

*Option



* Allow dimension L in front of cabinet for door opening and panel access.

** M dimension includes the space for the cabinet mounting brackets but you need to allow space below the cabinet for cable entry and access (minimum of 9.8").

*** CC: Control cabinet, PC: Power cabinet

▲ Attention: the optional cabinet with A/C is bigger. Ask for dimensions.

All dimensions are approximate for clearance purposes only. We have a policy of continuous product development, exact drawings are available on request. All specifications are subject to change without notification. Your distributor or our account manager can advise on correct sizing and specification requirements.

MODEL NUMBER	MAX POWER (KW)	NO OF LAMPS	DIMENSIONS (INCHES)								APPROX WEIGHT (LB)	
			Chamber				Cab.	Cabinet (fan cooled)[a]			Chamber	Cabinet
			A	B	C	DN	No***	K*	L	M**	Empty	Fan cooled
ProLine WW IL 100	1.8	2	30.7	12.2	15.7	4	1	13.84	31.5	49.02	93	170
ProLine WW IL 250	5.6	2	30.7	12.2	21.3	6	1	13.84	39.37	56.89	121	286
ProLine WW IL 400	11	4	30.7	12.2	18.3	6	1	13.84	39.37	56.89	121	286
ProLine WW IL 1000	11	4	30.7	12.2	23.6	8	1	13.84	39.37	56.89	176	286
ProLine WW IL 1250	16.5	6	30.7	12.2	23.6	8	1	13.84	47.24	49.02	176	300
ProLine WW IL 4500	26	6	35.3	14.5	31.5	14	1	26.09	47.53	83.05	375	683
ProLine WW IL 5000	35	8	35.3	14.5	31.5	14	1	26.09	47.53	83.05	375	683
ProLine WW IL 7500	52	12	35.3	14.5	31.5	14	1 CC	26.09	31.77	78.98	375	396
							1 PC	26.09	47.53	83.05		793
ProLine WW IL 14000	52	8	41.4	17.6	35.4	20	1 CC	26.09	31.77	78.98	573	396
							1 PC	26.09	47.53	83.05		793
ProLine WW IL 15000	52	12	41.4	17.6	35.4	20	1 CC	26.09	31.77	78.98	573	396
							1 PC	26.09	47.53	83.05		793
ProLine WW IL 16000	78	12	41.4	17.6	35.4	20	1 CC	26.09	31.77	78.98	573	396
							2 PC	26.09	47.53	83.05		793
ProLine WW IL 18000	117	18	41.4	17.6	35.4	20	1 CC	26.09	31.77	78.98	595	396
							3 PC	26.09	47.53	83.05		793

UV CHAMBER

Material:	StSt 316L / 1.4404
Internal finish:	< 0.8 µm Ra, welds ground out, electropolished and passivated
External finish:	Brushed to K280, electropolished and passivated
Process (mating) connections:	Flange ANSI 150
Drain connection:	NPT
Air vent connection	NPT
End plate:	Removable end plate
Inspection hatch:	Removable plate (except WW IL 100)
Degree of protection:	IP54 equivalent to NEMA 12
Wiper:	Automatic (electrically driven)
Lamps:	Medium pressure
Quartz Sleeves:	Pure quartz (F200)
Number of Lamps:	See table above
Expected lamp life:	10,000 hours
Temperature sensor:	Yes
UV sensor:	Dry DVGW compliant UV sensor (one per UV chamber)
Working fluid temperature:	33.8°F to 140°F
Hydrostatically pressure tested:	Yes
Chamber mounting:	Flow horizontal or vertical (lamps horizontal only)
Operating pressure:	145 psi (positive pressure only)
Seals:	EPDM, ADI free, EC 1935/2004, FDA 21 CFR 177.2600 approved

OPTIONS

- Document Support Pack
- Cabinet: Stainless steel 304
- Cabinet: Stainless steel 304 with air conditioning (41°-122°F), NEMA 4X (IP66), relative humidity <95% non-condensing*
- Cabinet: Stainless steel 316 with air conditioning with sloping roof (41°-122°F), NEMA 4X (IP66), relative humidity <95% non-condensing*
- Operation and Maintenance manual and printed Installation and Commissioning manual in Chinese, English, French, German & Spanish
- Flange options: PN16, JIS, Table 'E'
- Cable length: 65.6 and 95.1 ft
- In-field UV reference sensor kit
- Bleed: valve with BSP connection or NPT if ANSI flange
- Water level sensor: Full water detection UV chamber
- Water leak detection: Detects water leaks from quartz sleeve

OPTIONS (CONTINUED)

- Quartz sleeve F240 (reduces performance)
- Ultrawipe (for WW IL 250-18000)
- UV Touch™ controller (AB850 plc & Touchscreen)

CABINET (CONTROLLER UVTOUCH - AB850 PLC & TOUCHSCREEN)

Material:	Polyester coated carbon steel, RAL 7035
Degree of protection:	NEMA 12 (IP54)
Supply voltages:	IL 100 - 1250: 208V 3Ph 240V 1P+N 220V 1PH +N 277/480V 3P+N IL 4500 - 18000: 480V 3Ph
Operating temperature range:	41°F to 95°F
Relative humidity:	<85% non-condensing
Cooling fans:	Yes
Interconnecting cable:	32.8 ft
Variable power:	Stepless variable power (70% reduction from maximum ballast power)

***CC: Control cabinet, PC: Power cabinet Attention: the optional cabinet with A/C is bigger. Ask for dimensions.

HMI/CONTROL

Display:	Allen Bradley Panelview HMI, 7" Color Touch Screen
Operating menu:	3 levels (2 with password protection)
Fault finding:	Event log

CUSTOMER OUTPUTS

4-20 mA passive output:	UV dose, ballast power
VFC outputs:	Standby in remote, system standby, system cooling down, any trip, any warning, UV dose failure, system ready, wiper failure, lamp failure, full water level detection water leak, water temperature warning, water and cabinet temperature alarm

CUSTOMER INPUTS

4-20 mA active or passive inputs:	Flow meter and transmittance meter
VFC inputs:	Remote stop/start, remote clear message, remote wipe, remote set power high

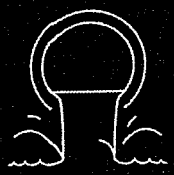
CUSTOMER COMMUNICATIONS PORT

Ethernet

APPROVALS

CE marked, UL 508A

* See sales drawings for dimensions



ProLine WW IL

Also available in our Waste Water product range...

PROLINE PQ WW AL

Range of amalgam products with NWRI validation for waste water reuse

PROLINE PQ WW IL

Range of medium pressure products with NWRI validation for waste water reuse

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americas@nuvonicuv.com

China
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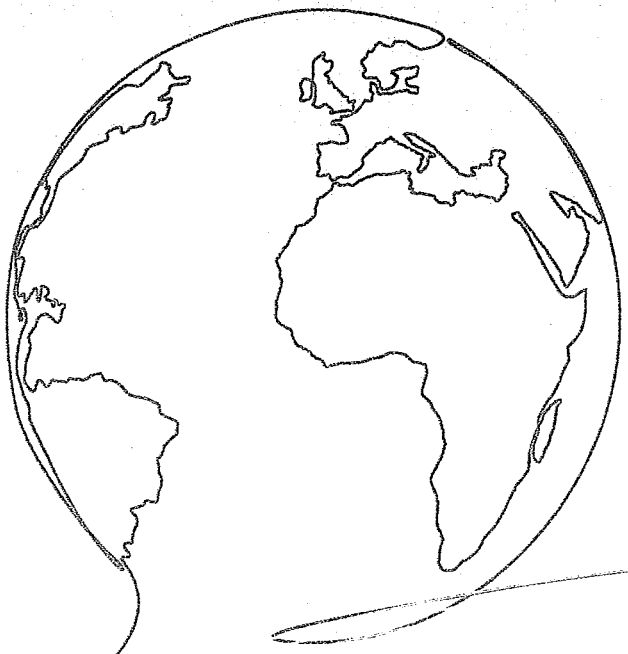
apac@nuvonicuv.com

Germany
+44 175 351 5300
emea@nuvonicuv.com

Malaysia
+60 16 440 8834
sea@nuvonicuv.com



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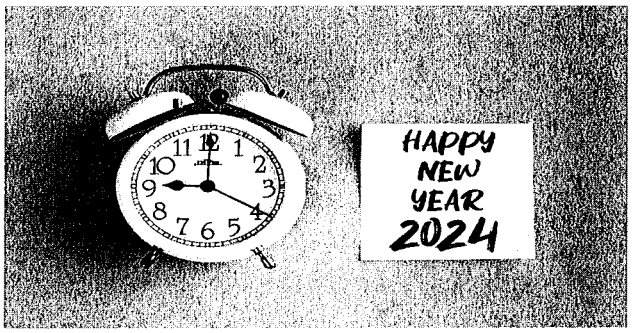

AGENDA ITEM D.

Fund Transfer from Timberland Bank to Local Government Investment Pool

City of Winlock

323 N.E. First Street/PO Box 777
Winlock, WA. 98596-0777
(360) 785-3811/fax (360-785-4378
wintrea@cityofwinlock.com

January 8, 2024

To: Mayor & City Council
From: Jill
Subject: Bank Transfer to LGIP

I am requesting to transfer $400,000.00 from the Timberland Bank checking account to the Washington State Local Government Investment Pool (LGIP). The current interest rate with LGIP is 5.4351% (annual). This move would allow us to accrue more interest within our investments.

The money would be taken from the Water/Sewer Capital Improvement Fund ($130,000.00) and the Water/Sewer Contingency Fund ($270,000.00). This transfer will not disrupt the day-to-day functions within these funds. No other funds would be affected.

Respectfully Submitted,

Jill Davis, Treasurer