

VILLAGE OF GILBERTS

RESOLUTION 05-2021

A RESOLUTION AUTHORIZING APPROVAL OF AGREEMENTS WITH TROJAN UV AND OKEH ELECTRIC FOR THE PURCHASE AND INSTALLATION OF A REPLACEMENT CONTROLLER FOR THE UV DISINFECTION SYSTEM IN AN AGGREGATE AMOUNT NOT TO EXCEED \$17,519

WHEREAS, the Village of Gilberts (“Village”) has a Public Works Department which maintains Village streets and other Village infrastructure, which includes the Village’s wastewater treatment system; and

WHEREAS, the Village utilizes a UV disinfection system to neutralize microorganisms in the treatment process; and

WHEREAS, the current controller is inoperable due to a hardware failure; and

WHEREAS, adequate funds were included in the FY2021 Budget for the purchase of a replacement controller for the UV disinfection system; and

WHEREAS, the UV disinfection system is propriety from Trojan UV and Trojan UV Is the sole source that provides the UV disinfection system; and

WHEREAS, the Village desires to contract with OKEH Electric for the installation of the replacement controller for the UV disinfection system.

THEREFORE, BE IT RESOLVED BY THE PRESIDENT AND BOARD OF TRUSTEES OF THE VILLAGE OF GILBERTS, ILLINOIS, as follows:

Section 1. **Recitals.** The recitals set forth above are hereby incorporated into and made a part of this Resolution as though set forth in this Section 1.

Section 2. **Approval; Authorization.** The Village Board of Trustees hereby authorizes the Village Administrator to execute agreements and other necessary documents with Trojan UV and OKEH Electric for the purchase and installation of a replacement controller for the UV disinfection system in an aggregate amount not-to-exceed \$17,519.

Section 3. **Effective Date.** This Resolution shall be in full force and effect after its approval in the manner provided by law.

PASSED BY VOTE OF THE BOARD OF TRUSTEES of the Village of Gilberts, Kane County, Illinois, this 19 day of Jan 2021.

	<u>Ayes</u>	<u>Nays</u>	<u>Absent</u>	<u>Abstain</u>
Trustee Dan Corbett	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Trustee Kurt Kojzarek	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Trustee Nancy Farrell	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Trustee Jeanne Allen	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Trustee Lou Hacker	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Trustee Guy Zambetti	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
President Rick Zirk	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

APPROVED THIS 19 DAY OF Jan, 2021





Village President, Rick Zirk

ATTEST:



Courtney Baker, Village Clerk

**UV3000+ DISINFECTION SYSTEM
SCC UPGRADE
(TOUCH SMART CONTROLLER)**

For

**VILLAGE OF GILBERTS, IL
86 RAILROAD STREET
GILBERTS, IL 60136**

**Date: July 8, 2020
Report No: RO_Project No_520090**

NOTICE

**This report is proprietary and may not be reproduced or
distributed to parties not directly associated with the
Gilberts WWTP
without the express written permission of Trojan Technologies.**

Summary

The installed Trojan UV3000+ System Controller Center (SCC) utilizes the Type M controller. This controller is obsolete, and the customer has requested an upgrade option.

Trojan is offering the new Touch Smart controller which is a microprocessor-based control system.



The Touch Smart controller has been designed by Trojan engineers to offer many of the benefits of PLC-based controllers but at a significantly lower cost. Key features offered by the Touch Smart controller include:

- Stainless Steel (Type 4X, IP66) enclosure for wall or pedestal mounting
- 7" Color touch screen interface with modern icons for intuitive operation (see Figure 2)
- High and low water level alarms (if probes installed)
- Inputs and Outputs for flow & UV Transmission signals
- Data logging through USB
- Ability to monitor remotely through SCADA (Modbus Ethernet)
- Ability to turn system on and off remotely
- Ability to bring on redundant bank automatically upon alarm condition
- Enables automatic control for up to 2 channels and 3 UV banks per channel (excluding control of weir or slide gates)

The recommended scope of work, equipment and services described on the following pages are to provide a new replacement SCC panel to replace the existing unit. Should you require any clarification or if you have any questions then please call or email.

Yours truly,

Heather Wilcox
Account Representative

System Control Center (SCC) Scope of Supply:

A new System Control Center (SCC) shall be supplied to monitor & control the UV System. The SCC shall consist of the components as detailed in the table below all of which provide the same general control functionality as originally supplied. The price does not allow for site installation services. Site service is described separately.

QTY	DESCRIPTION	UNIT MODEL NUMBER / COMMENT
1	Touch Smart Control Panel – microprocessor with 7” color touch screen interface	921512-304 SCC ASSY, TM TOUCH 304
1	SCADA Communication	RS485
1	Panel	Panel Construction: 304SS; wall mounted, indoor location; NEMA 4X IP66 enclosure rating; service outlet; lifting lugs. Heater UPS Electrical: 120VAC, 60 Hz. Drawing approval process confirms site fit/location.
1	Analog Inputs/Outputs	4/0 available (Flow, UVT)
1	Digital Inputs/Outputs	4/4 available
1	PLC Programming & testing	Downloaded and configured to site control philosophy.
Total Price US\$		16,419.00

Notes:

- 1) Any analog or communications wiring that is too short for direct connection to the new SCC panel connections will have to be replaced as “splicing” is not allowed. New wiring is the responsibility of the site and not included in SCC Scope Of Supply: Parts
- 2) Price does not include packaging and shipment to site.

Site Responsibility:

Site will be responsible for approving (or providing approval as noted) the submittal drawing(s) and SCADA address list (if applicable). Site will be responsible for removing the old SCC panel & installing & mounting the new SCC panel as indicated on the final drawing.

Site will be responsible for the transfer of (or new supply of) the following connections from the old panel to the new panel:

1. One (1) 120 volt, 60 Hz, 1 Phase, 2 wire (plus ground), power supply
2. One (1) ground link, 14 gauge minimum type TWH stranded, daisy chained to the PDC's
3. One (1) serial communication link consisting of two (2) twisted shielded pairs, 24 gauge maximum daisy chained to the PDC's
4. One communication cable from plant SCADA (if required)
5. Existing discrete and analog communication wiring
6. Any communications wiring that is too short for direct connection to the new SCC panel connections will have to be replaced as "splicing" is not allowed

Note that panel installation and power connections are required to be completed prior to Certified Service Technician arrival on site. Failure for site to be ready could result in technician needing to return at additional cost.

Site will be responsible for making operators available for training on the new SCC control panel.

Trojan Responsibility:

Trojan will be responsible for providing the SCADA address list (if applicable).

Certified Service/Controls Technicians (Piedmont Technical Services) are responsible for:

1. Verifying correct installation (power, mounting, configuration, communications, etc) of the SCC;
2. Verifying correct SCC/PLC operation;
3. Providing operator training.

Documentation:

One electronic copy of the following documentation will be supplied by Trojan:

1. SCADA address list for approval (if applicable)

2. Appropriate corrected sections for the original O&M Manuals.

Terms & Conditions:

Trojan Technologies Terms and Conditions of Sale and Service apply and are available upon request.

Shipment terms are ExWorks (ExW) London Ontario Canada. Partial shipments allowed.

Freight costs are available on request and freight will be added to the invoice.

Payment terms are NET 30 days.

Quote validity September 30 2020.

Delivery is 4-6 weeks to be confirmed at order placement.

Warranty is one (1) year materials and labor.

OKEH ELECTRIC COMPANY

ELECTRICAL CONTRACTORS
825 University Drive
Arlington Heights, Illinois 60004
P (847) 577-7744
F (847) 577-7764

January 13, 2021

Mr. Aaron Grosskopf
Director of Public Works
Village of Gilberts
73 Industrial Drive Gilberts, IL 60136

RE: GILBERTS UV ELECTRIC

SCOPE: Installation of UV controller with inclusions and exclusions.

INCLUSIONS:

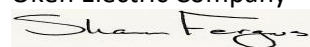
- Installation and termination.

EXCLUSIONS:

- Tax, Performance Bond, Utility fees and Permit Fees.
- Furnishing of UV equipment and SCADA integration (existing).

Not to exceed...\$1,100.00

Sincerely,
Okeh Electric Company



Shawn Fergus