



INDUSTRIAL AND MUNICIPAL AUTOMATION AND PROCESS CONTROL SYSTEMS
7950 CASTLEWAY DRIVE, INDIANAPOLIS, INDIANA 46250
PHONE (317) 577-3000 FAX (317) 577-3005

September 8, 2022

Q-15796

Allen Neff
Yorktown WWTP
2001 S. West Street
Yorktown, IN 47396

SUBJECT: Lift Station 500 Controls Upgrade

The lift station 500 control system will be upgraded with new PLC hardware, operator interface, and radar level transmitter. The controls system will be programmed to provide full automatic operation of pumps 1, 2 and 3 as well as mixer pump 4. All three pumps will be staged on & off based on the level of the wet well. All setpoints will be adjustable from the operator interface to configure the on/off levels for all pumps. Level status, pump status and alarms will be indicated on the operator interface. Automatic pump alternation will be available to give equal runtime on each of the pumps. Manual operation of the pumps can be done from the operator interface or from the operators mounted on the door of the enclosure. Lift station alarm status will be interconnected to the existing Omni-Site monitoring unit. Below is a list of services provided.

- Demo existing Mitsubishi PLC hardware and I/O modules
- Demo existing Mitsubishi operator interface
- Demo existing Fogrod level hardware
- Demo existing Endress & Hauser hardware
- Provide and install one Vega radar level transmitter
- Provide and install Allen-Bradley MicroLogix 1400 PLC and I/O modules
- Provide and install Allen-Bradley PanelView Plus operator interface.
- PLC program development
- Operator Interface program development

Total price as describe above \$13,935.00

Delivery is 4-6 weeks. Warranty is one year.

This quotation by reference incorporates the standard Frakes Engineering, Inc. terms and conditions for a fixed price contract. Any terms specifically called out in this Scope of Work will supersede the standard terms and conditions. The balance of the general terms and conditions still apply. If you do not have a copy of such standard Terms and Conditions, one will be provided upon request. Frakes Engineering warrants all supplied materials and labor for a period of 1 year from the date of beneficial use by the customer. Specific extended warranties by the manufacturers may cover materials, but not labor. Indiana Sales Tax has not been added and to be the responsibility of the purchaser. We look forward to the opportunity to assist you in completing this project.

Please give me a call if there are any questions.

Respectfully
FRAKES ENGINEERING, INC.

MICHAEL RUCKSTUHL
Project Manager, FEI

BBC Pump and Equipment Co Inc
 PO Box 22098
 Indianapolis, IN 46222
 317-636-1111

QUOTATION

Order Number	
1086281	
Order Date	Page
04/26/2022 08:20:23	1 of 2

Quote Expires On: 05/26/2022

Bill To:

Yorktown WWTP
 PO Box 518
 Yorktown, IN 47396

Ship To:

Yorktown WWTP
 2001 S West St
 PO Box 518
 Yorktown, IN 47396

765-759-9698

Attn: Amanda Reinke

Requested By: Mr. George Kane

Customer ID: 13554

<i>PO Number</i>		<i>Ship Route</i>	<i>Taker</i>	
500 West L/S			BJONES	

<i>Quantities</i>					<i>Item ID</i>	<i>Pricing</i>		
<i>Ordered</i>	<i>Allocated</i>	<i>Remaining</i>	<i>UOM</i>	<i>Unit Size</i>	<i>Item Description</i>	<i>UOM</i>	<i>Unit Price</i>	<i>Extended Price</i>
				<i>Disp.</i>		<i>Unit Size</i>		

Order Note: Replacement back panel for serial number 17496 to include the following:

- 225 Amp Main breaker
- TVSS (PTX160-NN400)
- (3) Pump circuit breakers
- (1) Mixer circuit breaker
- (2) Pump fuses
- (2) Mitsubishi F800 series variable frequency drives
- (2) NEMA rated FVNR starters with solid state overloads
- Phase monitor
- 10 kVA transformer with primary & secondary protection
- Control circuit breaker
- Load center
- 800 watt condensation heater & thermostat
- USEMCO "SENTRY" variable speed pump controller with 10" color touch screen operator interface
- Intrinsically safe back up float circuit
- Low level light - Integral to the operator interface
- High level light - Integral to the operator interface
- Wetwell level and set points - Integral to the operator interface
- Pump delay timers - Integral to the operator interface
- (4) Hand-Off-Auto selector switches

QUOTATION

Order Number	
1086281	
Order Date	Page
04/26/2022 08:20:23	2 of 2

Quote Expires On: 05/26/2022

Quantities					Item ID	Pricing	Unit	Extended
Ordered	Allocated	Remaining	UOM	Unit Size	Item Description	UOM	Price	Price
						Unit Size		
					- (4) Run lights			
					- (4) Run Time Meters - Integral to the operator interface			
					- (4) Fail lights - Integral to the operator interface			
					- (4) Fail reset push buttons - Integral to the operator interface			
					- Overtemp shutdown			
					- (4) Overtemp alarm lights - Integral to the operator interface			
					- (4) Seal fail alarm lights - Integral to the operator interface			
					- (4) Overtemp/seal fail reset push buttons - Integral to the operator interface			
					- Install Omni Site alarm dialer			
					- Unpowered dry alarm contacts			
					- Laminated wiring schematic affixed inside enclosure			
					- Wire numbered			
					- Terminal strip			
					- Factory wired & tested			
					- One year factory warranty			
1.00000	0.00000	1.00000	EA		USEMCO REPLACEMENT BACK PLATE	EA	38,145.72000	38,145.72
				1.0	Back Plate Replacement		1.0	
1.00000	0.00000	1.00000	EA		PLC	EA	6,857.14286	6,857.14
				1.0	Useemco replacement PLC and Touchscreen		1.0	

Total Lines: 2

SUB-TOTAL: 45,002.86

TAX: 0.00

AMOUNT DUE: 45,002.86

U.S. Dollars