



**Date:** 8/22/23

**To:** Honorable Mayor and Council

**From:** Public Works Director Herb Doudney

**CC:** City Administrator Dylan Mulfinger  
Assistant Public Works Director Tom Stewart

**Reference:** Variable Frequency Drive (VFD) Replacement

The Wastewater Treatment Plant has five 150hp positive displacement blowers which power the fine bubble diffusers in our four sequencing batch reactors (SBR)s with an extra for standby responsible for treating the solids in the SBRs. The power to these blowers is regulated by the VFDs. The last remaining original VFD has failed and needs replacement.

We have a quote from Automatic Systems, the long-term integrator used by the city, in the amount of \$18,942.00. These blowers are an essential part of the wastewater treatment process.

I am recommending this VFD be replaced to ensure continued compliance with state and federal regulations.

Regards,

*Herb Doudney*

Herb Doudney (Aug 22, 2023 14:59 CDT)

Herb Doudney  
Public Works Director



Mr. Matt Rogers  
City of Oelwein, IA  
20 Second Avenue SW  
Oelwein, IA 50662

August 10, 2023

SUBJECT: Oelwein, IA WWTP SBR Blower #1 VFD Replacement

Mr. Rogers,

We are pleased to offer the following proposal for the replacement and upgrade of your existing SBR Blower #1 Variable Frequency Drive (VFD) to the latest version at your wastewater treatment plant.

Our proposal includes equipment and services as detailed below.

**PowerFlex 753 Replacement VFD**

- A One (1) **SBR Blower #1 Variable Frequency Drive**, Allen-Bradley PowerFlex 753 Series Variable Frequency Drive, 480V, 186 Amps, 150 HP Normal Duty Rated (125 HP Heavy Duty Rated), with door-mounted Human Interface Module (HIM).
- B One (1) **Professional Services**, to include engineering and on-site field services to include panel modifications, start-up, VFD configuration, testing, and operator training.

Your net price for Items A through B, FOB factory with **freight allowed** to jobsite including one (1) year warranty from date of startup (not to exceed 18 months from date of shipment)..... **\$18,942.00 PLUS TAX** .

The above price for Items A through B **does not** include any:

1. Sales or use taxes.
2. Bond costs.
3. License fees or permits of any kind.
4. Interconnecting wire, cables, or conduits between control panels, MCCs, workstations, and primary devices.
5. Instrumentation of any kind.
6. Labor or any other miscellaneous materials that may be required for installation not specifically detailed above.



Branch Office  
515.232.4770  
2740 Ford St.  
Ames, IA 50010



Corporate Office  
651.631.9005  
2400 W County Rd. D  
St. Paul, MN 55112



Branch Office  
308.940.0649  
Grand Island, NE



Thank you very much for the opportunity of providing you with the above proposal, should you wish to proceed with an order please sign on the space provided below and return a copy to this office.

We look forward to hearing from you, should you have any questions please don't hesitate to give me a call.

Sincerely,

Jake McFarland  
Automatic Systems Company

Accepted by: \_\_\_\_\_ Date: \_\_\_\_\_

Items Accepted: \_\_\_\_\_ Purchase Order No: \_\_\_\_\_

Purchase Order Amount: \_\_\_\_\_



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