



## Board of Aldermen Request for Action

**MEETING DATE:** 2/21/2023

**DEPARTMENT:** Public Works

**AGENDA ITEM:** Resolution 1188, authorizing the purchase of a Variable Frequency Drive (VFD) at the Wastewater Treatment Plant.

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**REQUESTED BOARD ACTION:**

A motion to approve Resolution 1188, authorizing the purchase of a VFD at the Wastewater Treatment Plant from Mid-America Pump in the amount of \$13,564.60.

**SUMMARY:**

One of three VFDs that run the influent pumps is not working at the Wastewater Treatment Plant. The VFD regulates power coming into the plant and adjusts pump speeds depending on flows coming into the plant. This piece of equipment is essential to plant operations and needs to be replaced as quickly as possible. Mid-America Pump can get this VFD within a couple weeks.

**PREVIOUS ACTION:**

none

**POLICY ISSUE:**

Facility / infrastructure maintenance

**FINANCIAL CONSIDERATIONS:**

The 2023 Combined Water and Wastewater Systems maintenance budget includes sufficient funds for this maintenance expense.

**ATTACHMENTS:**

- |   |                                   |
|---|-----------------------------------|
| <input type="checkbox"/> Ordinance                  | <input type="checkbox"/> Contract |
| <input checked="" type="checkbox"/> Resolution      | <input type="checkbox"/> Plans    |
| <input type="checkbox"/> Staff Report               | <input type="checkbox"/> Minutes  |
| <input checked="" type="checkbox"/> Other: Proposal |                                   |

## **RESOLUTION 1188**

### **A RESOLUTION AUTHORIZING THE PURCHASE OF A VARIABLE FREQUENCY DRIVE (VFD) AT THE WASTEWATER TREATMENT PLANT**

**WHEREAS**, the City of Smithville operates a Wastewater Treatment Plant to treat the City's sanitary sewage; and

**WHEREAS**, one of the VFDs that regulates power to the plants influent pump station is not working; and

**WHEREAS**, replacement of the VFD is necessary and essential for the operation of the plant; and

**WHEREAS**, Mid-America Pump has provided a bid in an amount of \$13,564.60 and can replace the equipment in a couple weeks.

### **NOW THEREFORE BE IT RESOLVED BY THE BOARD OF ALDERMEN OF THE CITY OF SMITHVILLE, MISSOURI, AS FOLLOWS:**

**THAT** the Board authorizes the purchase of a new VFD from Mid-America Pump in the amount of \$13,564.60.

**PASSED AND ADOPTED** by the Board of Aldermen and **APPROVED** by the Mayor of the City of Smithville, Missouri, the 21<sup>st</sup> day of February, 2023.

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Damien Boley, Mayor

ATTEST:

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Linda Drummond, City Clerk



5600 Inland Drive  
Kansas City, Kansas 66106  
Phone 913-287-3900  
Fax 913-287-6641

## REPAIR PROPOSAL

SKP: 7725

Customer PO #:

Prepared By #:

Date: 2/8/2023

Repair Estimate: \$13,564.60

Replacement Price:

Estimated Delivery:

### Customer Information

#### Bill To:

#### Contact Info:

#### Ship To:

Company Name: City of Smithville  
Address: 107 W. Main Street  
City: Smithville  
State/Zip Code: Missouri 64089-

First Name: Bob  
Last Name: Lemley  
Phone: (816) 532-0070  
Fax: (816) 532-8331

Company:   
Address:   
City:   
State/Zip Code:

### Description of Problem

This is for replacing the existing VFD on pump #3 at the main lift station.

### Pump Information

Pump Make:   
Model: Eaton POWER XL DG1  
Style: VFD  
Pump RPM:   
Motor RPM:   
☐ Seal  
☐ Packing  
Serial No:   
HP: 40  
Voltage: 460  
Coupling:

### Repair Description

Repair proposal to include:  
1ea - New POWER XL DG1 VFD CAT NO. DG1-34046FB-C21C STYLE NO. 9702-3006-00P  
Labor to unwire the old VFD and remove it; install the new VFD and reland the wiring;  
programming of the VFD and testing  
Truck and MLS charges

\*\*Lead time is 1-2 weeks on the VFD\*\*

\*\*\*Does not include FREIGHT or anything else not listed above, please see terms and conditions\*\*\*

### Application Information

Pumpage:   
Head:   
Flow:   
Temp:   
Viscosity:   
Specific Gravity:   
☐ Hazardous ☐ Rotation Left  
☐ MSDS ☐ Rotation Right

### Terms and Conditions

1 Freight Charges Not Included  
2 Taxes Not Included  
3 Expedite Fees Not Included  
4 Payment Terms - Net 30  
5 Warranty Period - 90 Days  
6 Proposal Valid for 30 Days  
7 Teardown/Inspection/Field Service Hours/MLS  
will be charged if Equipment is Not Repaired or  
Replaced through Mid-America Pump