

where people matter

City of Loganville

Public Utilities
Brandon Phillips
Director

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Loganville, GA 30052

Tel: 770-466-3240

Staff Report

Department of Public Utilities

To: Honorable Mayor Baliles, and Members of the City Council

Through: Danny Roberts, City Manager

From: Brandon Phillips, Director of Utilities

Date: April 10, 2025

Subject: Treatment Facility Electrical Panel Repair (**Emergency**)

RECOMMENDATION:

The Utilities Department recommends that City Council approves the repairs of the main electrical panel for the centrifuge through Global Control Systems.

Due to failure of this Variable Frequency Drive (VFD), this will be an emergency repair. Due to the level of urgency, we already have this scheduled for repair. A purchase order was already created, and the electrician has been notified to proceed with ordering the parts.

Total costs for the repair is \$26,670.00.

Line item 505-4300-522205

BACKGROUND:

The centrifuge is how we separate solids from the liquids, and the bio-solids are then applied to land by our spreader trucks. The main centrifuge electrical panel at the treatment plant had a VFD failure due to age of the unit. The VFD is original to the panel and was installed in 1999 when the treatment plant was constructed. We are currently operating on a back-up unit that is less efficient, and are requiring employees to report to work earlier in the mornings to operate the centrifuge for longer periods.

March 25, 2025


Mr. David Pollard
City of Loganville, GA
Via email: dpollard@loganville-ga.gov

Reference: GCS Proposal Number 025GA037_Rev.2
Centrifuge VFD Replacement

Dear David,

We are pleased to provide a proposal to replace the existing, faulty Rockwell-discontinued VFD for the centrifuge system. GCS recommends replacing the VFD with an Allen-Bradley PowerFlex 750 series VFD.




 **Allen-Bradley**
ROCKWELL AUTOMATION

PowerFlex 700 AC Drive 77 A 60 Hp 20B



Catalog #: 20BD077A3ANNANCO

Lifecycle status: ● Discontinued

 Rockwell Automation announces that as of June 01, 2023, the PowerFlex 700 AC Drive 77 A 60 Hp 20B will be discontinued and no longer available for sale. Customers are encouraged to remove references to the affected product(s).

Discontinued Date:	June 01, 2023
Replacement Category:	Engineering Replacement

Technical Specifications

Drawings

Documents

Certifications

Alternative Products

Technotes

General

Custom Drive/Firmware

Internal Communication Module

Product Family

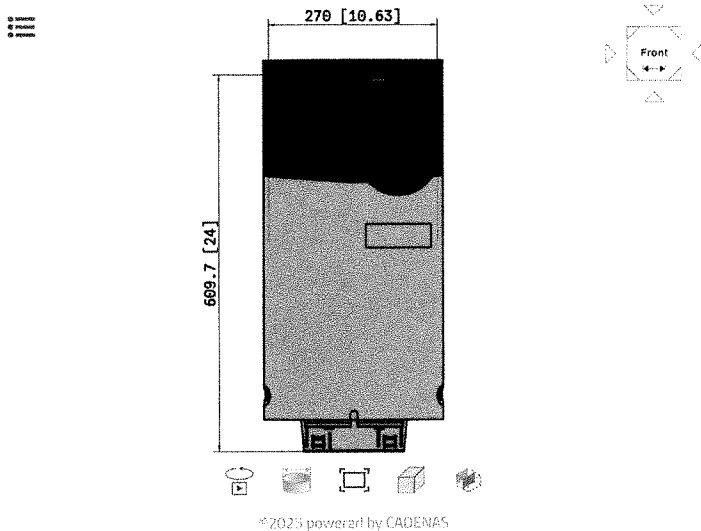
No Custom Firmware

No Communication Module

PowerFlex 700 AC Drive

Material Schedule

Proposed Material			
Qty.	Man.	Item	Description
1	AB	60 HP Normal Duty VFD	PowerFlex Architecture Class Drive, 480 VAC, 60 HP ND, 77 Amps, Frame 5, Filtered Variable Frequency Drive Internally mounted HMI



Note:

- This scope **does not include** any installation of the VFD.
- **The customer is responsible for providing an electrician to install the drive and make the necessary terminations. GCS will provide technical assistance to make terminations on the new VFD.**
- **This scope does include modifying the PLC program to interface with the new VFD. The customer may need an OEM vendor to fine-tune the drive for the centrifuge system, if necessary, and assist in coordinating with the original OEM.**
- This scope does not replace any other components in the panel section, including circuit breakers, fuses, disconnects, handles, breakers, filters, or other components inside or outside the bucket enclosure.
- The new VFD dimensions are listed above, and the customer accepts the revised dimension requirements.



- GCS is not responsible for electrical short circuits or upstream/downstream wiring issues related to fusing and/or any other electrical hazards. GCS recommends that the customer identify the source of the blown fuses to protect the new VFD.
- This scope does not include any sales tax.

Pricing Schedule	
Item	Description
Material Scope:	\$19,650.00
Engineering: VFD Configuration	\$ 2,750.00
Field Start Up	\$1,800.00
Total	\$24,200.00
Optional Installation cost:	\$ 2,470.00



Warranty:

A warranty will be provided for one year from the completion of work for GCS-furnished items.

Delivery:

Delivery will be made within 1 week after the order is processed for 1 VFD quantity. As of March 18, 2025, two are available in stock. Availability is confirmed after PO.

Any Applicable freight is not included in the scope.

Terms for Payment

100% - Delivery of hardware Equipment. **Net 30 Days**

Terms and Conditions

Prices quoted herein are for the equipment and services listed and do not include any external electrical wiring or termination, equipment installation, plumbing, or mechanical interconnection.

Prices are in U.S. funds; all applicable taxes are extra. The above prices will be held for **thirty** days, provided the equipment manufacturer's price remains unchanged. Any price change for equipment will be communicated to the customer.

If we are not in agreement within the specified timeframe, the terms and contract will be renegotiated later.

Payment Terms:

Pro-rated payment shall become due as each partial shipment is made. If a shipment is delayed for any reason beyond the control of GCS, prices shall be increased by 1.5% for each whole month or fraction thereof that the shipment is delayed beyond a reasonable timeframe. Furthermore, if the equipment is ready for shipment and the purchaser delays shipment, the date of notice of readiness for shipment shall be deemed the date of shipment for payment purposes.

This proposal is limited to only those technical portions of the Engineer's Specification specifically referred to herein, and to the Terms and Conditions of Sale as outlined. GCS is not bound by any Terms and Conditions of the Prime or other contracts not specifically included herein.

We appreciate the opportunity to present this proposal to you and look forward to collaborating with you on this project. If you have any questions, please do not hesitate to contact us.

Sincerely,

GLOBAL CONTROL SYSTEMS, INC.

Robert Patel