

**LAKE ARROWHEAD COMMUNITY SERVICES DISTRICT**

***MEMORANDUM***

**DATE:** FEBRUARY 22, 2022

**TO:** BOARD OF DIRECTORS  
Lake Arrowhead Community Services District

**FROM:** MATT BROOKS, Operations Manager  
  
CATHERINE CERRI, General Manager

**SUBJECT:** CONSIDER APPROVING THE PURCHASE OF ONE NEW REPLACEMENT VARIABLE FREQUENCY DRIVE (VFD) FOR THE RECYCLED WATER BOOSTERS AT THE GRASS VALLEY WASTEWATER TREATMENT PLANT

**A. RECOMMENDATION**

That the Board of Directors approves the recommendation to purchase one new Toshiba Replacement variable frequency drive (VFD) at a cost of \$23,230.00 freight, tax and installation included, from Advanced Inverter Services Inc.

**B. REASON FOR RECOMMENDATION**

The Toshiba replacement VFD will replace a Benshaw VFD located at the District's Grass Valley Wastewater Treatment Plant. The current VFD needs parts that are no longer available from the manufacturer or suppliers. This VFD is one of three that drive the golf course recycled water booster pumps that supply recycled water to the LACC pond. The District currently uses Toshiba VFDs elsewhere throughout the District and has been very happy with their versatility and performance.

All three existing Benshaw VFDs are expected to be budgeted to be replaced in the upcoming FY 2022-23 and 2023-24 Budget, however, due to long lead times District staff is requesting to get the purchase for one of these VFDs approved now to expedite the process and get a replacement for the failed VFD on the way.

**C. BACKGROUND INFORMATION**

The Grass Valley Wastewater Treatment Plant's Recycled water system was installed and put online in 2010 and provides recycled water to the golf course.

This system provides on average 230 acre-feet of recycled water to the golf course every year.

District Staff requested technical service and quotes from three local vendors and received one quotation for troubleshooting and cost to repair or replace the VFD.

**D. FISCAL IMPACT**

This replacement VFD for Grass Valley Treatment Plant is expected to be budgeted in the upcoming FY 22/23-23/24 Budget and will be funded by 160 (Supplemental Water). Fiscal impact will be \$23,230.00, freight, tax and installation included.

**E. ENVIRONMENTAL IMPACT**

None. This action does not fall under CEQA requirements.

**F. ATTACHMENTS**

- Advanced Inverter Service, Inc. Quote



Bill Katchmar
31776 Yucaipa Blvd. Unit 5
Yucaipa, CA 92399
1-866- VFDS R US
Dir. (909) 389-9444 Fax (909) 389-9411
Cell (909) 936-9699
E-mail:bkatchmar@advancedinverter.com

January 19, 2022

Lake Arrowhead Community Services

Mr. Tony Carricaburu
P.O. Box 700
Lake Arrowhead, California, 92352

Dear Tony,

Advanced Inverter Services is pleased to submit for your approval our proposal to install one 350hp, 460V pump VFD for the Pilot Rock Rd. location. New VFD will continue to have full 18 pulse function.

Services Performed:

- 1. Provide and install Toshiba Variable Frequency Drive as listed below. One (1) AS3, 350hp, 460V
2. All necessary labor and materials required to remove existing VFD and mount and wire drive inside existing VFD enclosure per the manufacturers recommendation.
3. Interface new VFD to existing 18 pulse system tying in all safety features and functions. This includes DC contactor and temp safeties.
4. Provide and install remote door mounted keypad.
5. Program VFD for proper operation.
6. Instruct operator(s) on start-up, operation and fault diagnosis.
7. Provide factory authorized start-up services ensuring One (1) year parts and labor warranty on variable frequency drives.
8. Terms are 50% upon order, 50% net 30 upon completion.

AMOUNT FOR SERVICE AS MENTIONED .....\$23,230.00

The above quote includes all applicable taxes and freight charges. Price is firm for 30 days from date above. Delivery is thirty (30) to thirtyfour (34) weeks upon receipt of your authorization to proceed. Should, upon performance of the above, it be noted that any additional labor or materials be required to complete services above and beyond the above scope, you will be notified prior to commencement of services. Terms and conditions on reverse side. This proposal is firm for acceptance within thirty (30) days. If I may be of assistance, please feel free to contact me at (909) 936-9699, by fax at (909)389-9411, or by E-mail at inverter.man@verizon.net. Your active consideration of Advanced Inverter Services is greatly appreciated.

Sincerely,

Acceptance

Authorized Signature

Bill Katchmar
Inverter Specialist/CEO

Title

Date