

**Indian River County, Florida  
Department of Utility Services  
Board Memorandum**

**Date:** October 31, 2022

**To:** Jason E. Brown, County Administrator

**From:** Sean C. Lieske, Director of Utility Services

**Through:** Richard Meckes, Operations Manager

**Prepared By:** Michael Loveday, Wastewater Superintendent

**Subject:** Central Wastewater Treatment Facility Generator Replacement Engineering

**Descriptions and Conditions:**

Indian River County Department of Utility Services (IRCDUS) operates the Central Wastewater Treatment Facility (CWWTF) located at 3550 49th Street. CWWTF currently operates two (2) standby generators, which are a carryover from the past when the CWWTF 49<sup>th</sup> Street site consisted of a Residuals Dewatering Facility (RDF) and the current CWWTF.

The generators have reached the end of their useful life and replacement is necessary. The purpose of this project is to consolidate the emergency backup power for the facility and reduce the redundancy of maintenance required for two emergency power systems. Kimley-Horn and Associates (KHA) engineering firm was contacted to provide IRCDUS with an evaluation on consolidating the emergency generators. The evaluation provided the following recommendations for the CWWTF generators:

- Eliminate the existing 365 kW generator from the old RDF
- Replace the existing 1000 kW generator with a new appropriately sized unit to provide emergency power for the entire site
- Replace the two (2) existing automatic transfer switches (ATS) with new units
- Replace the day tank and generator exhaust
- Make structural modifications to facilitate replacement and reconfigure the site so that one generator will power the entire site

KHA will provide services for the preparation of design documents for the proposed improvements, assist with bidding of the proposed improvements, and provide construction phase services.

**Funding:**

Replacement of the CWWTF generators is budgeted in the Fiscal Year 2022/2023 operating budget for the amount of \$158,696.00 in the Utilities/WIP/CWWTF Generator Replacement account, number 471-169000-20525, in the Utilities operating fund. Utilities operating funds are generated from water and sewer revenues, and operating capital items are paid from the fund balance.

<b>Description</b>	<b>Account Number</b>	<b>Amount</b>
Utilities/WIP/CWWTF Generator Replacement	471-169000-20525	\$158,696.00

**Recommendation:**

Staff recommends that the Board of County Commissioners approve Work Order #56 with Kimley-Horn and Associates (KHA), and authorize the Chairman to sign the contract with KHA, in the amount of \$158,696.00, for professional technical services associated with the generator replacement/consolidation project.

**Attachments:**

KHA Scope – Gifford Generator