



THE CITY OF KEY WEST

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MEMORANDUM

TO: Jim Scholl, City Manager
Greg Veliz, Assistant City Manager

FROM: John Paul Castro, Utilities Director

DATE: November 9, 2017

SUBJECT: Ratifying the Purchase of a Programmable Logics Control Unit and Associated Equipment for the Ultraviolet Disinfectant System at the Wastewater Treatment Plant to Trojan Technologies in the amount of \$67,338.64 due to Damage During Hurricane Irma

Action Statement:

This resolution will ratify the city managers approval of purchasing a new programmable logic control (PLC) unit and associated equipment for the wastewater treatment plant (WWTP) UV disinfectant system that was damaged in hurricane Irma to Trojan Technologies in the amount of \$67,338.64 pursuant to Code of Ordinances 2 – 797 (2) Emergency Procurement in excess of \$20,000 and 2-797 (1)(b) Sole Source Procurement.

Purpose and Justification:

The City's advanced WWTP switched in 2006 from chlorine based disinfectant to a UV treatment in its goal to maintaining advanced wastewater treatment.

The UV system is the final process before discharging treated waste water. The final stream passes through the UV light system which is located outside before being pumped to the wells. The controls are all located above the equipment in exterior rated boxes.

The wind driven rain from hurricane Irma entered the seals of the boxes and wet the electrical systems. The sensitive computers and controls were found to be inoperable following the hurricane and needed to be replaced immediately.

The UV system for the WWTP is run by multiple controls and computer systems that were bid and installed per environmental engineering standards to disinfect effluent discharge. The damaged parts can only be sourced by Trojan Technologies to keep the system in working condition as designed. Competitively sourcing other controls would have made necessary and entire new disinfectant system.

While the UV disinfectant system was down the City used chlorine treatment to disinfect the effluent as an alternative.

Key to the Caribbean – Average yearly temperature 77° F.

Financial Impact:

The WWTP repair will be charged to account 0011910 519 6500 project number HU1701F02

Recommendation:

City Staff recommends ratifying the emergency purchase of UV disinfectant controls and components from Trojan Technologies in the amount of \$67,338.64