

RESOLUTION NO. 2017-74

**A RESOLUTION OF THE BOARD AND MAYOR
AND ALDERMEN of THE CITY OF FRANKLIN, TENNESSEE,
TO RECOMMEND SPECIFIC EQUIPMENT AND SERVICES FOR THE
FRANKLIN WRF MODIFICATIONS & EXPANSION PROJECT BE
SOLE-SOURCED BY A SINGLE SUPPLIER**

WHEREAS, the City of Franklin (City) Board of Mayor and Aldermen (BOMA) approved (COF Contract No 2013-0001) the Franklin Water Reclamation Facility (WRF) Modifications and Expansion Project (Project) with CDM Smith (Consultant) to provide for the design of the upgrade of the WRF to increase its treatment capacity in order to provide for the growth of the City; and

WHEREAS, during the design process, the Consultant, with concurrence of the City's staff, determined that it would be in the best interest of the Project to standardize equipment and services provided for the Water Reclamation Facility for the Programmable Logic Controllers (PLCs), Human-Machine Interface (HMI), a microwave total solids analyzer, and the provider who can modify the existing scum pumps; and

WHEREAS, the Board of Mayor and Aldermen find that it is in the best interest of the City and for the efficiency of operations to provide similar equipment as found in the current operations of the WRF and throughout the collection and distribution system,

WHEREAS, the staff recommends to standardize on the manufacturer and model for PLCs because of the inherent advantages of a standardized control system, specifically, using the same type of PLCs throughout the water and wastewater systems that results in having standard spare parts, common operation and maintenance knowledge across the systems, and the ability of PLCs to communicate "peer to peer" without special programming,

WHEREAS, a new HMI software package is needed to replace the City's outdated Wonderware InTouch HMI software and staff and the Consultant engaged in a competitive evaluation process that included workshops and presentations and through scoring by staff and the Consultant selected Trihedral's VTScada HMI software as the standard for the City's SCADA system,

WHEREAS, co-digestion with FOG is an integral part of the WRF's new biosolids facility and fats, oils, and grease (FOG) is injected into a pre-dewatered waste activated sludge (WAS) pipe at varying solids percentages, and a microwave total solids analyzer, manufactured by Valmet, can provide the range of FOG solids to provide key stat to optimize co-digestion,

WHEREAS, new holding tanks to store and decant scum from the final clarifiers will be constructed as part of the upgrades and the four existing Gorman Rupp T3 centrifugal scum pumps at the Return Sludge Pump Station and the RAS/WAS Pump Station are all in good working condition, but the construction of the new holding tanks and modifications are expected to alter the system operating conditions, reducing the efficiency of the pumps and requiring maintenance to account for this change that can only be provided by the local vendor and service representative, Southern Sales Company of Nashville, Tennessee,

WHEREAS, the BOMA is committed to high quality and efficient infrastructure that will provide an efficient, safe, and economically vital facility for the residents and future residents of the City of Franklin, and consistently strives to be effective and efficient in the administration of City business, and

NOW, THEREFORE, BE IT RESOLVED, by the Board of Mayor and Aldermen for the City of Franklin authorize that the following products, materials, and systems and services associated with the Franklin WRF Modifications and Expansion project be provided by the following:

- Programmable Logic Controllers manufactured by Allen-Bradley,
- Human-Machine Interface manufactured by Trihedral
- Microwave Total Solids Analyzer manufactured by Valmet
- Scum Pump maintenance provided by Southern Sales Company

IT IS SO RESOLVED AND DONE on this _____ day of _____, 2017.

ATTEST:

CITY OF FRANKLIN, TENNESSEE:

By: _____
ERIC STUCKEY
City Administrator/Recorder

By: _____
DR. KEN MOORE
Mayor

APPROVED AS TO FORM BY:

Shauna R. Billingsley
City Attorney

