

RESOLUTION NO 2013-83

**A RESOLUTION TO APPROVE THE PURCHASE OF THE INTERIM
ULTRAVIOLET (UV) DISINFECTION EQUIPMENT FOR THE FRANKLIN
WATER TREATMENT PLANT IN ORDER TO BE IN COMPLIANCE OF THE
EPA LONG TERM 2 SURFACE WATER TREATMENT RULE**

WHEREAS, the City and Smith Seckman Reid, Inc. (SSR) entered into a Professional Services Agreement entitled City of Franklin, Tennessee Professional Services Agreement, Water Treatment Plant Modifications (COF Contract No 2012-0183) (“Agreement”), dated the 27th day of November, 2012; and

WHEREAS, the design of the Water Treatment Plant Modifications is not scheduled for completion until October 2014 and then the construction project will have to be bid with a twelve (12) to eighteen (18) month construction period after award of the construction contract; and

WHEREAS, the City is required to meet the intent of the Environmental Protection Agency’s (EPA) Long Term 2 Surface Water Treatment Rule (LT2 Rule) by September 30, 2014; and

WHEREAS, in order for the City to achieve the LT2 Rule compliance schedule it has become necessary to advance an interim Ultraviolet (UV) disinfection treatment upgrade ahead of the rest of the Water Treatment Plant Modifications; and

WHEREAS, Requests for Proposals (RFP) for the UV disinfection system were solicited from multiple vendors on October 8, 2013, with only one (1) response received on October 31, 2013 from Trojan Technologies, Inc. (Trojan); and

WHEREAS, the price of the UV disinfection system equipment as specified proposed by Trojan is \$119,700.00 which is significantly less than the estimate budget price of \$160,000.00; and

WHEREAS, the BOMA consistently strives to be effective and efficient in the administration of City business and this purchase is in the best interest of the City of Franklin.

**NOW THEREFORE, BE IT RESOLVED, BY THE BOARD OF MAYOR AND
ALDERMEN OF THE CITY OF FRANKLIN, TENNESSEE THAT:**

The purchase of the ultraviolet (UV) disinfection system equipment for the Franklin Water Treatment Plant as supplied by Trojan Technologies, Inc. is approved at the proposed purchase price of **One Hundred Nineteen Thousand Seven Hundred and No/100 Dollars (\$119,700.00)** and the City Engineer and/or Water Management Director are authorized to purchase said equipment post haste for incorporation into the interim improvements project

required for the City to meet EPA's LT2 Rule prior to the September 30, 2014 compliance deadline date.

IT IS SO RESOLVED AND DONE this the 10th day of December, 2013

CITY OF FRANKLIN, TENNESSEE

Attest:

Dr. Ken Moore
Mayor

Eric S. Stuckey
City Administrator

APPROVED AS TO FORM BY:



Kristen L. Corn
Staff Attorney



ATTACHMENT A

November 18, 2013

Mr. David Parker
Franklin Water Management Department
405 Hillsboro Road
Franklin, Tennessee 37064
United States of America

RE: Franklin Water Treatment Plant

Dear David,

Based on the testing required under the Long Term 2 Enhanced Surface Water Treatment Rule (LT2), the source water for the Franklin Water Treatment Plant (WTP) is classified as Bin 2. In addition, your system is grouped as Schedule 2, meaning the water treatment plant must have an additional log of treatment in operation by September 30, 2014.

To meet this schedule, it was decided to install a ultra-violet (UV) disinfection system at the existing plant as an interim step to meet compliance before the new plant is commissioned. The interim UV disinfection reactor will be incorporated into the UV- advanced oxidation process (UV-AOP) system as part of the future treatment plant improvements.

Requests for Proposals (RFP) for the UV disinfection system were solicited from multiple vendors on October 8, 2013. The RFP required detailed information on company history, experience on similar installations, and experience on UV-AOP installations in addition to a price proposal and life cycle cost information.

One response to the RFP was received on October 31, 2013 from Trojan Technologies, Inc. The other vendors declined to submit a proposal due to their lack of experience with UV-AOP installations.

The proposal from Trojan Technologies, Inc. included all required information including an extensive history of UV-AOP installations in municipal drinking water applications. The proposed price for the equipment as specified was \$119,700.00 which is significantly less than the estimate budget price of \$160,000.00.

We respectfully recommend this proposal be accepted and incorporated into an interim improvements project at the WTP. As always, if you have any questions or comments please feel free to contact me at your convenience.

Thank you,

A handwritten signature in black ink, appearing to read 'Sam Harrison', is written over a horizontal line.

Sam Harrison

Cc: Mark Hilty – COF, Russell Sullivan – COF (via email)
MLB, ATJ, JHB – SSR (via email)




HISTORIC
FRANKLIN
TENNESSEE

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Worksession

MEMORANDUM

December 3, 2013

TO: Board of Mayor and Aldermen

FROM: Eric Stuckey, City Administrator 
David Parker, City Engineer/CIP Executive
Mark Hilty, Water Management Director

SUBJECT: Consideration Of Resolution 2013-83, A Resolution to Approve the Purchase of the Interim Ultraviolet (UV) Disinfection Equipment Purchase for the Franklin Water Treatment Plant in Order to be in Compliance of the EPA Long Term 2 Surface Water Treatment Rule.

Purpose

The purpose of this memorandum is to provide the Board of Mayor and Aldermen (BOMA) with information to consider purchase of UV disinfection equipment for the Franklin Water Treatment Plant (WTP) to meet the intent of the Long Term 2 Surface Water Treatment Rule (LT2 Rule).

Background

Under the LT2 Rule the City of Franklin WTP is required to implement a treatment strategy to achieve the intent of the rule by September 30, 2014. This strategy has been planned for during previous water treatment studies including the Integrated Water Resources Plan (IWRP) and included in the Scope of Work for the design and construction of the WTP Upgrade. However, based on the design and construction schedule for the WTP upgrades that includes the ultimate solution (UV disinfection) to meet the LT2 Rule, it has become necessary to advance an interim UV disinfection treatment upgrade ahead of the rest of the construction in order to achieve the LT2 Rule compliance schedule. Staff through our design consultant requested an extension of the LT2 Rule compliance deadline to better coincide with the WTP Upgrade project, but this extension request was denied by TDEC.

Consistent with recommendation presented to the Board of Mayor and Aldermen (BOMA) at the November 5, 2013 Special Work Session, the City of Franklin and Smith Seckman Reid (SSR) performed a selection process for the purchase of UV equipment to be installed at an interim location in the treatment train. The equipment will be moved in the future to a permanent location during the construction of the WTP upgrades.

As summarized in Attachment A, Requests for Proposals (RFPs) were solicited from multiple vendors. The City and SSR received one response on October 31, 2013 from Trojan Technologies for \$119,700. Based on original estimates, this is \$40,300 less than anticipated.

Financial Impact

The financial impact, as defined in Attachment A is \$119,700. Estimates for the equipment cost had been \$160,000. This project cost is part of the Water Capital Investment Program, approved projects in Phase I of the IWRP implementation.

Recommendation

Approval of the purchase for UV disinfection equipment from Trojan Technologies is recommended.