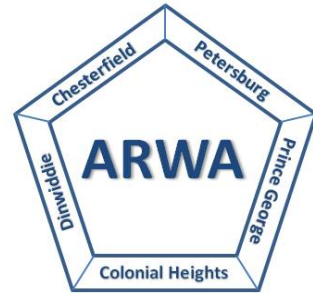


Appomattox
River
Water
Authority



21300 Chesdin Rd. - S. Chesterfield, VA 23803 - Phone (804) 590-1145 - Fax (804) 590-9285

Appomattox River Water Authority
Board of Directors Special Meeting

DATE: April 26, 2018

TIME: 2:00 PM

LOCATION: Appomattox River Water Authority
Conference Room, Administration Building
21300 Chesdin Road
South Chesterfield, Virginia 23803

AGENDA

1. Call to Order/Roll Call
2. Approval of Award of a Construction Contract for the "In-Plant" Upgrade Project
3. Other Items from Board Members/Staff Not on Agenda
4. Adjourn

Cc: W. Duple/G. Hayes, Chesterfield
L. Lyons, City of Petersburg
W. Henley, Colonial Heights
R. Wilson, Dinwiddie Water Authority
D. Thompson, Prince George
D. Mullen, McGuire Woods

1. Call to Order/Roll Call

2. Approval of Award of a Construction Contract for the “In-Plant” Upgrade Project

Following is a memorandum concerning award of the Construction Contract for the In-Plant Upgrade Project.

MEMORANDUM

**TO: APPOMATTOX RIVER WATER AUTHORITY
BOARD OF DIRECTORS**

**FROM: ROBERT C. WICHSER, EXECUTIVE DIRECTOR
JAMES C. GORDON, ASSISTANT EXECUTIVE DIRECTOR**

SUBJECT: AWARD OF “IN-PLANT” IMPROVEMENT PROJECT

DATE: APRIL 26, 2018

Based on the need for this project, the Authority undertook bonding the funds in December 2017 and conducting a RFP for Engineering Services resulting in Hazen & Sawyer and WW Associates as the project engineers. This project is designed to provide for upgrading specific pumps & motors, electrical drives and conduits, and replacement of an emergency generator. This new equipment will replace 1960's/1980's vintage equipment.

Based on the specific electrical/instrumental and mechanical specialty required of this project, contractors were prequalified as part of the two step procurement process. A Pre-qualification RFP was issued on January 28, 2018 and a mandatory pre-proposal meeting was held on February 9, 2018 with contractor qualification packages due to ARWA on February 28, 2018.

On March 7, 2018 the selection committee (ARWA & WW Associates) reviewed contractor qualifications based on the contractor submittals and selected the pre-qualified contractors. All contractors that submitted packages were notified in writing on March 12, 2018 whether they were pre-qualified.

The selected pre-qualified firms were:

Crowder Construction Company
MEB General Contractors, Inc.
Instrument & Control Systems Engineering, Inc.
Southwood Building Systems, Inc.
Rudy L. Hawkins Electrical Contractor, Inc.
T.A. Loving Company

The “In-Plant” project scope of work is as follows:

- Demolition of Existing Raw Water and Finished Water Pumping Equipment;
- Demolition of existing Emergency Generator;
- Demolition of three (3) Domestic Water Pumps;
- Installation of four (4) New 500 HP Raw Water Vertical Turbine Pumps;
- Installation of four (4) New 300 HP Finished Water Vertical Turbine Pumps;
- Installation of three (3) New 20 HP Domestic Water Vertical Turbine Pumps;
- Installation of one (1) New 250 HP Backwash Water Vertical Turbine Pump;

- Installation of two (2) 20 HP Domestic Water Submersible Vertical Turbine Pumps;
- Construction of new Precast Concrete VFD Building;
- Installation of 48-inch Mag Meter;
- Demolition and Installation of Chemical Piping;
- Demolition of existing 480V and 4160V Electric Equipment, including motor control centers, switchgears, and motors;
- Modification of 2,000 amp, 4160V switchgear;
- Modification of 5 kV, 4160 switchgear;
- Installation of new 3,200 amp, 480V switchgear and Electrical Equipment;
- Installation of new 3MW Emergency Generator;
- Building HVAC and Electrical Up-fit, and Incidental related work.

As part of this project’s procurement process, the second part was that the Authority advertised for bids on March 14, 2018 to the pre-qualified contractors. Only teams comprised of the ARWA/Project Engineer selected prequalified contractors were permitted to submit bids for this project. Bids were opened on April 11, 2018 at 2 PM with receipt of bids as follows:

<u>Total Bid Submitted including the Seven Additive Bid Items</u>	
Crowder Construction Company:	\$ 6,962,000
MEB General Contractors, Inc.:	\$ 6,039,000
Southwood Building Systems, Inc.:	\$ 7,977,300
T.A. Loving Company:	\$ 7,208,000

Project Costs:

- **Engineer’s 2017/2018 estimate for the project: \$ 13,500,000**
- **Bond funded budget is: \$12,917,855 after closing**
- Project Engineers Hazen & Sawyer and WW Associates design, bidding service and construction inspection/management fees are \$ 940,000 (This cost is covered in the Board approved 2017/2018 O&M budget)
- ARWA is directly purchasing pumps & motors from the equipment manufacturer along with the emergency generator:
 - (Project Engineer’s estimate on pumps & motors: \$2,360,000): April bid result for pumps & motors: Pumps & motors: \$1,270,000;
 - (Project Engineer’s emergency generator estimate: \$1,120,000): December 2017 pricing from generator supplier: \$958,272;
- Instrumentation Controls/PLC System Integration by E-Merge: \$275,000
- Construction contractor costs: \$ 6,039,000
- **Total estimated project costs: \$ 9,482,272**
- **Project cost minus the Engineering fees already covered from the O&M: \$8,542,272**

MEB General Contractors, Inc. bid met all required submittals for bid bond and insurance. Project Engineer WW Associates has recommended to the Authority to award the construction contract, and Notice to Proceed, to MEB General Contractors, Inc. of Richmond/Chesapeake, Virginia.

Board Action Requested:

ARWA staff recommends that the Board of Directors award the “In-Plant” Improvement Project construction contract to MEB General Contractors, Inc. Staff also requests a five percent (\$427,114) contingency for this work, to be used only if the Executive Director considers it necessary and authorizes in writing any increase from the original amount. Additionally, staff requests utilization of \$775,000 “In-Plant” project funds towards the ongoing Filter Gallery HMIs upgrade. This would allow completion of this project in 2019 rather than waiting for two additional FY budgets to finish the filter control HMI upgrades in 2021.

The total “In-Plant” project cost (minus consulting engineering fee) with the requested contingency and the filter gallery HMI work is \$9,744,386 with \$3,173,469 in reserve.

3. Other Items from Board Members/Staff Not on Agenda

4. Adjourn