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Department of Utilities
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TO: Chairperson Greg Dannecker and Members of the Utilities Committee

FROM: Utilities Deputy Director Chris Stempa

CC: Utilities Director Chris Shaw
Water Operations Supervisor Joe Meyers

DATE: June 30, 2015

RE: *Approval of Sole Source Contract to Fiberglass Solutions Inc. for Hypochlorite Fiberglass Reinforced Plastic Tank Conditions Assessment & Repair Work in the amount of \$57,345 plus a 5% contingency of \$2,867 for a total not to exceed of \$60,212*

BACKGROUND:

On April 28, 2015, the Utilities Committee approved the recommendation for contract award to Fiberglass Solutions, Inc. to conduct a conditions assessment and repair work on one of the Appleton Water Treatment Facility's (AWTF) three sodium hypochlorite tanks. In recent years all three tanks have been observed to have small temporarily repairable leaks. However, Tank #1 was targeted for this work because of progressively worsening leakage detected along the lower circumference of the tank including smaller pin-hole leaks identified at flange and pipe penetrations. The overall structural integrity of the tank would dictate if repair work was feasible or cost justifiable. Therefore, a conditions assessment was a necessary pre-cursor to repair work.

On June 3, 2015 Fiberglass Solutions inspected Sodium Hypochlorite Tank #1 and determined that severe erosion of the interior fiberglass resin liner system was compromised including isolated areas of structural failure. The tank overall was determined to be in structural sound condition. Therefore, based on the conditions assessment findings the AWTF went forth with the relining and repair work. The complete repair on Sodium Hypochlorite Tank #1 was completed the week of June 8th.

JUSTIFICATION TO REPAIR OF TANKS #2 AND #3:

Prior communication with numerous tank manufactures including repair technicians indicated that fiberglass-reinforced plastic (FRP) bulk sodium hypochlorite storage tanks generally have a life expectancy of 15 years before relining or replacement is necessary. All bulk storage tanks installed at the AWTF as part of new construction in 2001 will now soon reach that 15 service year life milestone. Increasing frequency and severity of leaks coupled with the recent conditions assessment work completed by Fiberglass Solutions Inc. support this. As a result, it is the AWTF's desire to expeditiously move forward with the conditions assessment and repairs (as determined necessary) of Sodium Hypochlorite Tanks #2 and #3. The AWTF recommends sole source approval to Fiberglass Solutions Inc. for these services given the quality of workmanship this firm provided with Tank #1 and the earlier quotation process results which are summarized below.

Firm	Total Quote
Fiberglass Solutions	\$28,673
ECC Corrosion Inc.	\$52,300
Belding Tanks	DNP
Roy Nordenstrom & Son's Inc.	DNP
Herrick Sales	DNP

DNP: Did not provide a complete quote or was non-responsive.

RECOMMENDATION:

It is recommended that the Utilities Committee award sole source contract to Fiberglass Solutions Inc. for the hypochlorite fiberglass reinforced plastic tank conditions assessment and repair work in the amount of \$57,345 plus a 5% contingency of \$2,867 for a total not to exceed of \$60,212

If you have any questions regarding this project please contact Chris Stempa ph: 832-5945