

WEST BASIN MUNICIPAL WATER DISTRICT

OCTOBER 8, 2003 – Water Resources
McDonald, Little

OCTOBER 27, 2003 – Board Meeting

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INFORMATION CALENDAR

PHASE IV WATER RECYCLING PLANT EXPANSION
ENGINEERING UPDATESUMMARY:Design-Build Team RFP Process

Five (5) Design-Build Teams were pre-qualified to receive "Request for Proposals" (RFP) on the Phase IV Expansion Project. Two of the five teams have verbally indicated their intent to not submit proposals. The three (3) remaining Design-Build Teams are as follows:

- J.R. Filanc/HDR
- Kiewit Pacific/Parsons
- Montgomery Watson Harza

The submittal due date for proposals has been extended two weeks from October 9 to October 23, 2003. The submittal date was extended to allow proposers adequate time to coordinate with the UV System Supplier and incorporate the UV system into the design proposal. The UV System proposal was issued to the proposers as an addendum in late September. Recommendations for award of the Phase IV Design-Build Services contract is expected to occur during the November Board cycle.

UV System Pre-Selection

The UV System Supplier for the Phase IV Project was determined to be Trojan Technologies. Two (2) UV vendors, Trojan Technologies and Wedeco UV, submitted proposals to the District. Although both vendors met the project objectives and the intent of the specifications, Trojan Technologies provided the lowest capital and life-cycle cost system. Trojan's life-cycle cost had a present worth of \$4,991,065, which was approximately \$1,780,000 lower than Wedeco's cost. CDM performed a thorough evaluation of each proposal and recommended Trojan to be the Phase IV UV system supplier. The process used in determining the recommended UV system was also reviewed and approved by District legal counsel.

The Trojan proposal has been provided to the Design-Build Teams through addendum for inclusion in their proposals. The UV System Supplier will be required to contract with the successful Design-Build Team to furnish and support the specified equipment in accordance with their proposal.

The UV System selection process involved a series of steps that included pilot testing, data submittal and approval, RFP's, proposal submittal, and extensive proposal evaluation.

Pilot Study

Four (4) UV vendors participated in the pilot testing program. The vendors included Atlantic UV, Severn Trent, Wedeco UV, and Trojan Technologies. Pilot testing data was to be used in each vendor's proposal submittals. Each vendor was also given the opportunity to provide supplemental piloting or operational data that was equivalent to piloting data obtained at West Basin. A final pilot test report was submitted by each vendor and accepted by West Basin.

Request for Proposals

RFP's were given to each of the four UV vendors who participated in the pilot testing program. The RFP included submittal requirements, proposal evaluation process, selection process, and all project contract requirements. System selection was identified to be based upon the Lowest Responsive Proposer on a life-cycle basis. Out of the four vendors participating, proposals were received from Trojan and Wedeco.

Evaluation Process

A thorough evaluation of both proposals was performed by technical experts at CDM, who is retained by the District as part of the Phase IV Pre-design services. CDM has extensive experience with the design and implementation of UV systems for water treatment, has provided this service on other large-scale UV operations for several other water agencies, and is highly qualified to perform the analysis on the Phase IV UV system submittals. The intent of the analysis was to compare each Proposer's system on an equal basis and to determine which proposal is in the best interest of the District.

During the evaluation process, several items needed to be clarified in both Proposer's submittals. Requests for clarification on these items were made to both Proposers. Upon complete review of the two submittals, it was determined that both Proposers used some latitude in their application of certain factors or criteria established in the specifications. CDM concluded that both Proposers justified the values used and the systems proposed met the intent of the specifications. In addition, the Proposers were required to provide 100% performance bonds for their systems, which provide financial assurance that the UV system will ultimately operate as proposed.

Trojan Technologies had the lowest life-cycle cost of the two proposals with a present worth cost of \$4,991,065. Wedeco's life-cycle present worth cost was higher at \$6,773,173. CDM also noted that adjustment of the factors used by both Trojan and Wedeco for comparative purposes would still result in Trojan having a lower cost system.

For the reasons described above, CDM recommended Trojan Technologies be the UV System Supplier for the Phase IV Project. CDM also supported their recommendation to select Trojan Technologies based on Trojan's experience with installation and operation of UV systems for NDMA reduction, additional redundancy built into Trojan's proposed system, and the financial backing provided by their Performance Bond. District staff and legal counsel reviewed and concurred with CDM's recommendation.

The following is a proposed schedule of the tasks required for completing the Phase IV Project:

Design-Build Team Selection

- Receive Design-Build Proposals - October 2003
- Select Design-Build Team - November 2003
- Notice to Proceed – Design Build - December 2003
- Estimated Project Completion - February 2006

FISCAL IMPACTS:

The FY 2003-04 through 2005-06 Capital Improvement Plan budget will include funds to achieve the aforementioned project activities.

ENVIRONMENTAL COMPLIANCE:

None required at this time.

COMMITTEE STATUS:

This item was reviewed by the Water Resources Committee on October 8, 2003 and agenda'd to the October 27, 2003 Board meeting as information for discussion.

RECOMMENDED MOTION:

This item is for information only.