



**Board of Directors
June 3, 2020**

SUBJECT:

Approve and Authorize the Award of Contracts for Integration Services with Beavens Systems Inc. (\$432,236), and Procurement of Hardware with Royal Industrial Solutions (\$668,106) for the Perris Valley Regional Water Reclamation Facility Programmable Logic Controllers Upgrade, and Funding for the Total Project Cost in the Amount Not to Exceed \$1,360,000

BACKGROUND:

The Perris Valley Regional Water Reclamation Facility (PVRWRF) Industrial Control System (ICS) is the central component for the control and automation of the various treatment processes within the plant. Currently, the physical hardware that comprises a major portion of the plant's ICS is obsolete. There are 20 Allen Bradley Programmable Logic Controllers (PLCs), which have been discontinued by the manufacturer. Having been discontinued, the manufacturer no longer provides replacement parts. The Allen Bradley PLC hardware needs to be upgraded to the latest platform to maintain the reliability of the facility processes, pumps, miscellaneous equipment, and improve safety.

The PLCs and associated components are proprietary and can only be purchased from the manufacturer and their local representatives, Royal Industrial Solutions. Staff developed a detailed list of components, including spares needed for the project. If authorized, the District will avoid the annual cost increase going into effect August 23, 2020. Purchasing the equipment and components directly also serves to avoid paying a 15 to 20 percent contractor markup price representing an additional savings of over \$100,000. The equipment will be provided to a systems integrator contractor as the work progresses.

Staff developed a comprehensive scope of work to upgrade the ICS system at the PVRWRF and advertised the project under Request for Proposal (RFP) No. 3287. Three proposals were received and subsequently evaluated based upon multiple criteria including, but not limited to, price and the firm's experience completing similar work. The attached Summary of Proposals (Exhibit A) contains the ranking for each firm as scored by the project team. Beavens Systems Inc. (BSI), of Torrance, California, submitted the highest scoring and lowest cost proposal in the amount of \$432,236. As shown in Exhibit B, the total project is estimated at \$1,360,000, including equipment, systems integration by BSI, fiber optic installation, staff labor, and contingencies. This project is included in the District's Operating Fixed Assets budget with a total budget amount of \$1,500,000.

FINANCIAL IMPACT:

Funding for this item is provided for in the Biennial Budget for Fiscal Years 2019-20 and 2020-

21.

STRATEGIC PLANNING GOAL/OBJECTIVE:

Maintenance: Implement and manage preventative and predictive maintenance programs that enable a highly reliable operation of EMWD's facilities and extend the useful life of assets.

ENVIRONMENTAL IMPACT:

None

RECOMMENDATION:

Approve and authorize the following:

1. Execution by the General Manager, or his designee, of a contract with Beavens Systems Inc., for the integration services supporting the Perris Valley Regional Water Reclamation Facility PLC Upgrade Project in the amount of \$432,236;
2. Execution by the General Manager, or his designee, of a contract with Royal Industrial Solutions to purchase the hardware for the Perris Valley Regional Water Reclamation Facility PLC Upgrade Project in the amount of \$668,106; and
3. Funds for the total project in the amount not to exceed \$1,360,000.

SUBMITTED BY:



Paul D. Jones II P.E., General Manager

5/21/2020

Attachment(s):

Exhibit A - Summary of Proposal

Exhibit B - Cost Estimate

Presentation

History:

05/28/20 Board Operations and Engineering Committee RECOMMENDED FOR

APPROVAL

06/03/20 Board Meeting

Staff Contact: Matt Melendrez