

RIVERSIDE PUBLIC UTILITIES

Board Memorandum

BOARD OF PUBLIC UTILITIES

DATE: APRIL 9, 2018

ITEM NO: 6

SUBJECT: AWARD RFQ-804 FOR FURNISHING AND DELIVERING A DOBLE HIGH-VOLTAGE ASSET ANALYZER TO ONESOURCE DISTRIBUTORS CONSTRUCTION, INC. OF SAN DIEGO, CALIFORNIA, IN THE AMOUNT OF \$136,657.43 – APPROVE WORK ORDER NO. 1822667 FOR \$136,658

ISSUES:

Award RFQ-804 for furnishing and delivering a Doble High-Voltage Asset Analyzer to OneSource Distributors of San Diego, California, in the amount of \$136,657.43; and approve the capital expenditure of \$136,658 for Work Order No. 1822667.

RECOMMENDATIONS:

That the Board of Public Utilities:

1. Award RFQ-804 for furnishing and delivering a Doble High-Voltage Asset Analyzer to OneSource Distributors of San Diego, California, in the amount of \$136,657.43; and
2. Approve Work Order No. 1822667 in the amount of \$136,658.

BACKGROUND:

The electric power supplied to customers is highly dependent on the safe and reliable operation of critical equipment housed at electric substations. As such, and in conformance with Riverside Public Utilities (RPU) standards and North American Electric Reliability Corporation (NERC) regulatory requirements, on-site field testing is performed by substation test technicians when commissioning new equipment installations, assessing the condition of existing equipment, and locating the source of equipment failures. In addition, the data collected is used to make informed engineering and business decisions regarding the optimization of maintenance and the allocation of capital resources.

The Doble M7100 High-Voltage Analyzer (M7100) is a complete solution for substation power transformer high voltage testing. The M7100 automates multiple tests that previously have been performed by several pieces of testing equipment, thereby reducing the testing time and outage time by 33 percent. In addition, the M7100 improves safety and quality of field work by limiting exposure to the test technician and reducing potential errors.



Doble M7100 on a Hand Truck

DISCUSSION:

Transformer electrical testing is an effective diagnostic tool to evaluate the condition and health of power transformers. This allows us to effectively manage the life of power transformers, extend the life of power transformers, and reduce failures. The new test equipment provides new technology with enhanced capabilities and features compared to the equipment currently used by staff. The M7100 is a complete solution for power transformer testing. Due to their intuitive design and hardware configuration, the M7100 reduces the number of ladder trips to the top of power transformers by one-third. This helps reduce personnel risks that technicians are exposed to during test procedures. Also, by employing a single device to perform a variety of tests, staff expects to improve data collection and analysis because fewer actions and physical connections are required to set up the single unit as compared to the set up and break down of multiple different testing units.

Five vendors were invited to submit bids. Four vendors submitted quotes. Staff evaluated the quotes and deemed OneSource Distributors of San Diego to be the lowest responsive proposer. The bid was within the engineer's estimate.

The bids are summarized in the table below:

Vendors	Location	Proposal Amount	Evaluation
1. OneSource Distributors	San Diego, CA	\$136,657.43	Lowest responsive Bidder
2. Concept Power Inc.	Las Vegas, NV	\$147,235.24	2 nd
3. WESCO Distributors	Cerritos, CA	\$147,301.91	3 rd
4. Graybar Electric	San Bernardino, CA	\$176,762.25	4 th
➤ Engineer's Estimate		\$150,000	

FISCAL IMPACT:

The total fiscal impact for furnishing and delivering a Doble High-Voltage Asset Analyzer is \$136,658. Sufficient funds are available in Public Utilities Substation Bus Upgrade Capital Account No. 6130000-470616.

Prepared by: George R. Hanson, Utilities Assistant General Manager/Energy Delivery
Approved by: Todd L. Jorgenson, Interim Utilities General Manager
Approved by: John A. Russo, City Manager
Approved as to form: Gary G. Geuss, City Attorney

Certifies availability of funds: Laura M. Nomura, Utilities Assistant General Manager/Finance & Administration

Attachment: Award Recommendation