

RIVERSIDE PUBLIC UTILITIES

Board Memorandum

BOARD OF PUBLIC UTILITIES

DATE: MAY 24, 2021

SUBJECT: BID NO. SUB-849 15KV CIRCUIT BREAKER REPLACEMENT PROJECT WITH ANNIXTER, INC. IN THE AMOUNT OF \$470,877.02 – WORK ORDER NO. 2120986 FOR A TOTAL CAPITAL EXPENDITURE IN THE AMOUNT OF \$490,000

ISSUES:

Consider awarding Bid No. SUB-849 for Multiple Substations 15KV Circuit Breaker Replacement Project with Anixter, Inc., of Corona, California, in the amount of \$470,877.02; and approval of Work Order No. 2120986 for Multiple Substations 15KV Circuit Breaker Replacement Project in the amount of \$490,000.

RECOMMENDATIONS:

That the Board of Public Utilities:

1. Award Bid No. Sub-849 for Multiple Substations 15kV Circuit Breaker Replacement Project with Anixter, Inc., of Corona, California in the amount of \$470,877.02; and
2. Approve Work Order No. 2120986 for Multiple Substations 15kV Circuit Breaker Replacement Project in the amount of \$490,000.

BACKGROUND:

15 kilovolt (KV) circuit breakers are one of the most fundamental and critical components in electric distribution substations. The 15kV circuit breakers are housed in walk-in switchgear within the boundaries of the substation facility. This type of equipment provides over-current protection and protects the power grid from electrical faults and disturbances. It also provides the means of isolating other electric equipment sections within the station for maintenance, switching, or construction. The average service life of breakers is between 30-40 years. The condition of the breaker is a significant factor to interrupt high levels of current during electrical faults. Improper performance of this equipment compromises the reliability and safety of the distribution system, which could result in long outages.

Engineering staff evaluated the condition of the distribution circuit breakers based on the life expectancy, risk factors, and electrical testing data to reduce the probability of in-service failures of circuit breakers. The evaluation identified a total of 15 distribution circuit breakers that need to be replaced at Harvey Lynn, Riverside, and Kaiser substations.



Distribution 15kV Circuit Breaker



Racked out breaker in a Switchgear

DISCUSSION:

Riverside Public Utilities (RPU) is committed to providing safe and reliable energy service to all customers. As part of RPU's Utility 2.0 effort to identify and replace aging infrastructure, RPU plans to replace a total of 15 distribution circuit breakers at Harvey Lynn, Riverside, and Kaiser substations. The new circuit breakers will be vacuum interrupter with faster interrupting time which reduces arc flash incident energy and improves safety.

On March 11, 2021, RPU requested quotes from five vendors in response to Bid No. Sub-849 for the furnishing of 15 distribution 15KV circuit breakers through an informal procurement process. Bids closed on March 30, 2021. Four vendors submitted bids, and one vendor declined to participate. Staff evaluated the bids and deemed Anixter, Inc., of Corona, California, to be the lowest responsive and responsible bidder. The bid was within the engineer's estimate.

The table below summarizes the bid results:

Vendors	Location	Bid Amount	Ranking
Anixter Inc.	Corona, CA	\$470,877.02	1st
OneSource Distributors	Riverside, CA	\$470,895.11	2nd
Graybar Services, Inc.	San Bernardino, CA	\$491,804.99	3rd
Bisco Industries	Anaheim, CA	\$506,634.96	4th
Engineer's Estimate		\$490,000	

The City has a local preference policy for the procurement of local goods, which gives a preference to local businesses submitting bids for procurement of goods. Specifically, if a company is located in Riverside, and the submitted bid is within five percent of the apparent low bid, the bid can be awarded to the Riverside company even though the Riverside company is not the lowest bidder. However, California law provides that such a preference is not applicable to procurements that are funded by electric, water, refuse or sewer rates. Therefore, even though the bid submitted by OneSource Distributors, a Riverside company, is within five percent of the bid submitted by Anixter, Inc., the local preference policy does not apply and the bid must be awarded to the lowest bidder. Here, the lowest bidder is Anixter, Inc.

The project and fiscal breakdown for the total capital expenditure is as follows:

Project & Fiscal Breakdown		
Work Type	Performed By:	Amount (\$)
Procurement of Circuit Breaker per Bid No. SUB-849	Annixter Inc.	\$470,877.02
Project Management	RPU Engineering	\$2000
Installation and Testing	RPU Substation Crews	\$17,122.98
Work Order Total:		\$490,000
Anticipated Start Date:		August 2021
Anticipated Completion Date:		September 2021

The Purchasing Manager concurs that the recommended actions are in compliance with Purchasing Resolution No. 23256.

FISCAL IMPACT:

The total fiscal impact is \$490,000. Sufficient funds are available in Public Utilities Bus Upgrade Account No. 6130100-470616.

Prepared by: George R. Hanson, Utilities Assistant General Manager/Energy Delivery
 Approved by: Todd M. Corbin, Utilities General Manager
 Approved by: Al Zelinka, FAICP, City Manager
 Approved as to form: Kristi J. Smith, Interim City Attorney

Certifies availability of funds: Edward Enriquez, Chief Financial Officer/City Treasurer

Attachments:
 1. Project Site Map
 2. Presentation