

BID NO. RPU-7927 FOR FURNISHING AND DELIVERING TWO SUBSTATION POWER TRANSFORMERS

Energy Delivery

Board of Public Utilities November 14, 2022

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BACKGROUND

Substation Power Transformers

- 1. Essential components of the power grid
- 2. Critical to the reliability and optimum operation of the electric grid
- 3. Expected design life of approximately 40 years

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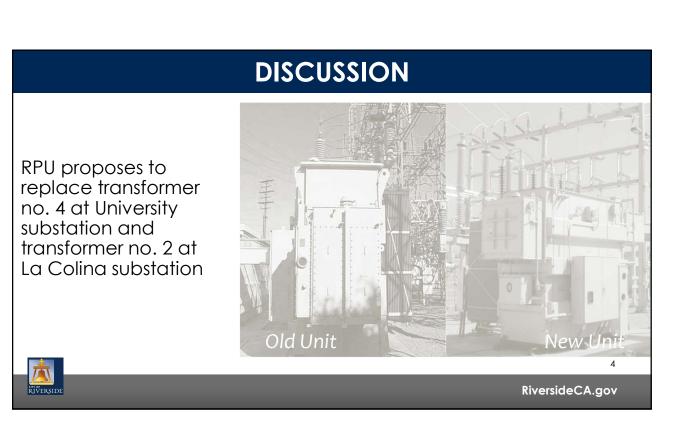
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BACKGROUND

Substation Power Transformers in RPU's System

- 1. Provide power to 3,000 or more customers
- 2. Among most expensive component in the electric system
- 3. Several units exceeding end of design life
- 4. Long lead-time equipment (Average 72 weeks)





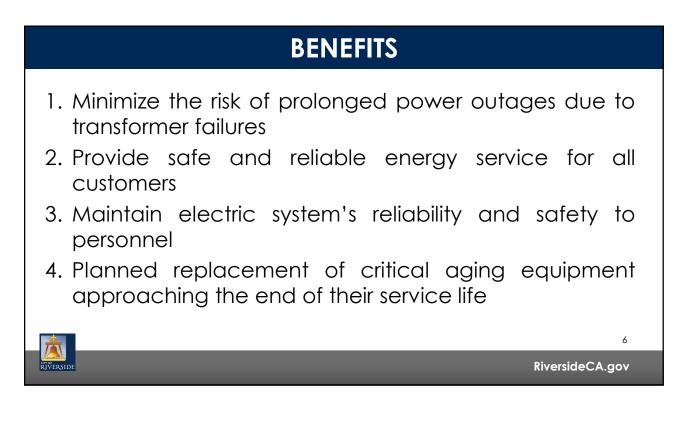
DISCUSSION

- 1. University T4 30-year-old transformer that experienced an internal fault and cannot return to service; mobile transformer No.2 is carrying customer load
- 2. La Colina T2 55-year-old transformer at end of its design life and test results show deterioration



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SCOPE OF WORK

- 1. Five vendors submitted bids for transformers through City's Online Bid System under Bid No. RPU-7927
- 2. Includes installation of transformers, related electrical, civil and underground work, and upgrades
- 3. Consultant firm to perform structural engineering design and analysis, another one to perform design review and factory acceptance testing
- 4. RPU personnel to perform engineering, construction and testing

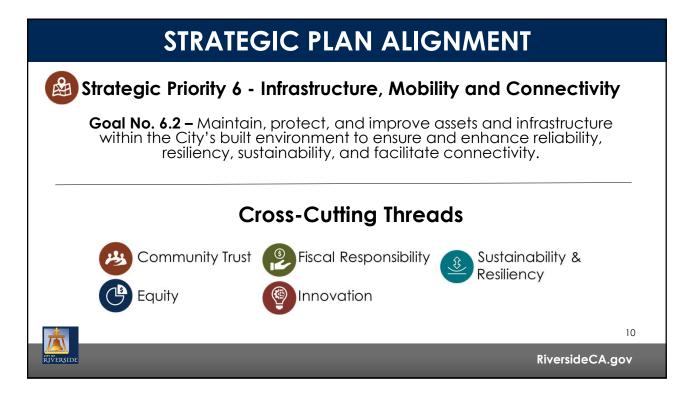
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RPU-7927 BID SUMMARY				
VENDOR	CITY LOCATION	EVALUATED BID AMOUNT	RANKING	
Virginia Transformer Corporation	Roanoke, VA	\$2,986,263	1	
WEG Transformers USA	Washington, MO	\$4,868,910	2	
OTC Services Inc. (Equipment Marketing & Listing Service Inc.)	Louisville, OH	\$3,362,915	(non-responsive)	
Delta Star Inc. (HighPoint Power Systems)	San Carlos, CA	\$4,281,219	(non-responsive)	
Hitachi Energy (Pacific Utilities)	Crystal Springs, MS	\$5,281,453	(non-responsive)	
	Engineer's Estimate	\$3,360,000		
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PROJECT BREAKDOWN			
WO No. 2219619	WO No. 2202776		
\$67,000	\$82,000		
\$45,000	\$45,000		
\$48,000	\$48,000		
\$147,000	\$222,000		
\$1,310,177	\$1,676,085		
\$131,000	\$167,000		
\$246,823	\$259,915		
\$1,955,000	\$2,500,000		
	WO No. 2219619 \$67,000 \$45,000 \$48,000 \$147,000 \$1,310,177 \$131,000 \$246,823		



RECOMMENDATIONS

That the Board of Public Utilities:

- 1. Award Bid RPU-7927 for furnishing and delivering two substation power transformers to Virginia Transformer Corporation, of Roanoke, Virginia, in the amount of \$2,986,263 plus contingency of 10% in the amount of \$298,000;
- 2. Approve the capital expenditure for Work Order No. 2219619 in the amount of \$1,995,000 for University Substation Transformer No. 4 Replacement Project, which includes all design, construction, equipment purchase, construction support, contract administration, and inspection;
- 3. Approve the capital expenditure for Work Order No. 2202776 in the amount of \$2,500,000 for La Colina Substation Improvement Project, which includes all design, construction, equipment purchase, construction support, contract administration, and inspection; and
- 4. Authorize the City Manager, or designee, to execute any documents necessary to effectuate the project described herein, as well as the ability to make minor and non-substantive changes in alignment with all purchasing policies.



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