

Substation Power Transformer Replacements

Riverside Public Utilities

Board of Public Utilities May 14, 2018

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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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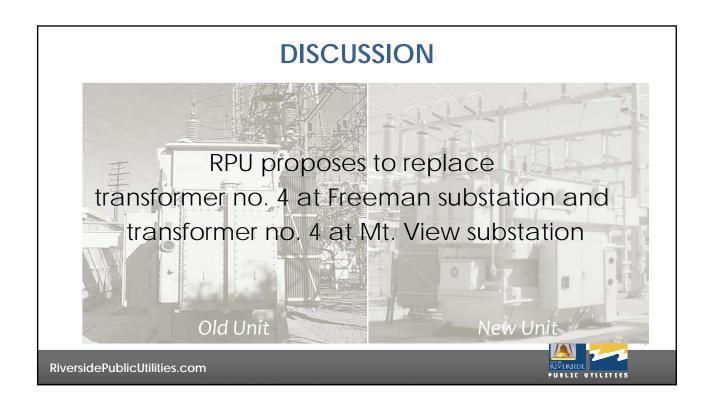
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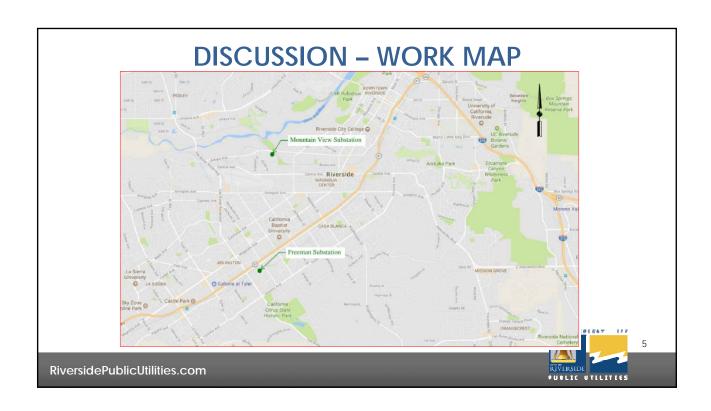
BACKGROUND

Substation Power Transformers in RPU's System:

- 1. Provide power to 5,000 or more customers
- 2. Single, most expensive component in the electric system
- 3. 16 exceeding end of design life
- 4. Up to 52-week leadtime







DISCUSSION - BENEFITS

- 1. Planned replacement of critical aging equipment approaching the end of their service life
- 2. Minimize the risk of in-service failures
- 3. Provide safe and reliable energy service for all customers
- 4. Maintain electric system's reliability and safety to personnel



DISCUSSION - WORK SCOPE

- 1. Includes installation of transformers, related electrical and underground work and upgrades
- 2. Four vendors were invited to submit proposals for equipment under RFP-805
- 3. The purchase of the equipment is covered under Section 602 of Purchasing Resolution No. 22576

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PROPOSAL RESULTS

	EVALUATED	
VENDORS	AMOUNT	RANKING
Delta Star Inc.	\$2,675,046	1st
SPX Transformer Solutions, Inc.	\$2,698,590	2nd
ABB Inc.	\$2,711,592	3rd
Hyundai	\$2,717,000	4th



PROJECT BREAKDOWN

DESCRIPTION	AMOUNT	
Delta Star, Inc.	\$2,289,438	
Project Management and Engineering Design	\$273,243	
Bus Ducts, and Misc. Equipment and Material	\$300,000	
Inspection and QEW Services	\$150,000	
Construction Contact (Estimate)	\$620,000	
Factory Acceptance Testing, Field Testing and		
Commissioning	\$188,071	
Contingency (10%)	\$382,075	
Work Order Total	\$4,202,827	

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Recommendations

That the Public Utilities Board:

- 1. Award Request for Proposal No. 805 for furnishing and delivering two substation power transformers from Delta Star Inc., of San Carlos, California, in the amount of \$2,289,438.44; and
- 2. Approve Work Order No. 1816638 for \$4,202,827.

