

# RIVERSIDE PUBLIC UTILITIES

## Board Memorandum

**BOARD OF PUBLIC UTILITIES**

**DATE:** SEPTEMBER 26, 2016

**ITEM NO:** 3

**SUBJECT:** APPROVE A PURCHASE ORDER TO CROWN TECHNICAL SYSTEMS OF FONTANA, CALIFORNIA, FOR SUBSTATION PROTECTIVE EQUIPMENT FOR THE 69KV BREAKER AND BUS DIFFERENTIAL RELAY REPLACEMENT PROJECT, WORK ORDER NO. 1603079, FOR \$124,546

**ISSUE:**

Approve a purchase order to Crown Technical Systems of Fontana, California, for system protection relay panels for the 69kV Breaker and Bus Differential Relay Replacement Project at Springs and Orangecrest Substations, in the amount of \$124,546.

**RECOMMENDATION:**

That the Board of Public Utilities approve a purchase order for \$124,546 to Crown Technical Systems of Fontana, California, for system protection relay panels and additional miscellaneous material for the 69kV Breaker and Bus Differential Relay Replacement Project at Springs and Orangecrest Substations.

**BACKGROUND:**

The Electric System Master Plan recommends replacing all electromechanical relays in Riverside Public Utilities' transmission and distribution system with microprocessor-based relays. The Board of Public Utilities approved a 69kV Breaker and Bus Relay Replacement Project (Work Order 1603079) for \$1,700,000 on February 19, 2016. The purchase of this electronic relay equipment is an integral part of this Work Order. The current expenditures for the project are \$791,201.

The scope of work includes replacing aging electromechanical bus protection relays with microprocessor-based relays at two substations. Relay replacement is a vital element of the Utility 2.0 plan and an enabling technology step for additional automation capabilities. This procurement includes the purchase of bus protection relay panels for Springs and Orangecrest Substations. At this time, the engineering is 60% complete. The remaining work includes final engineering, construction, and testing.



Typical Substation Protection Panels

The purchase of the relays is covered under Section 602 of Purchasing Resolution No. 22576. Section 602 specifies specialized equipment that is particular to the needs of the City's Public Utilities Department and provides for acquisition by Open Market Procurement if it appears to the Purchasing Services Manager to be in the best interest of the City. Open Market Procurement allows the City to issue requests for quotations instead of bids, meaning that the City can select based upon qualifications and pricing, not just low bid. The Purchasing Services Manager made such a determination in this case.

Four vendors were invited to submit proposals for the 69kV relay panels. Three vendors submitted proposals. Staff evaluated the proposals (Specification No. SUB-796) and deemed Crown Technical Systems to be the lowest qualified proposer. The proposal results are summarized in the table below:

<b>Vendors:</b>	<b>Proposal Amount Including Sales Tax</b>	<b>Ranking</b>
1. Crown Technical Systems	\$124,546	1 <sup>st</sup>
2. Keystone Electrical Manufacturing Co	\$133,993	2 <sup>nd</sup>
3. Electrical Power Products, Inc.	\$147,924	3 <sup>rd</sup>
➤ <i>Engineer's Estimate</i>		\$130,000

Staff verified that the prices offered are fair and reasonable and the proposal was below the engineer's estimate. Staff and the Purchasing Services Manager concluded the Crown Technical System's bid to be in the best interest to the City and met all necessary technical qualifications.

The Purchasing Services Manager concurs that these recommendations comply with the City of Riverside's Purchasing Resolution No. 22576.

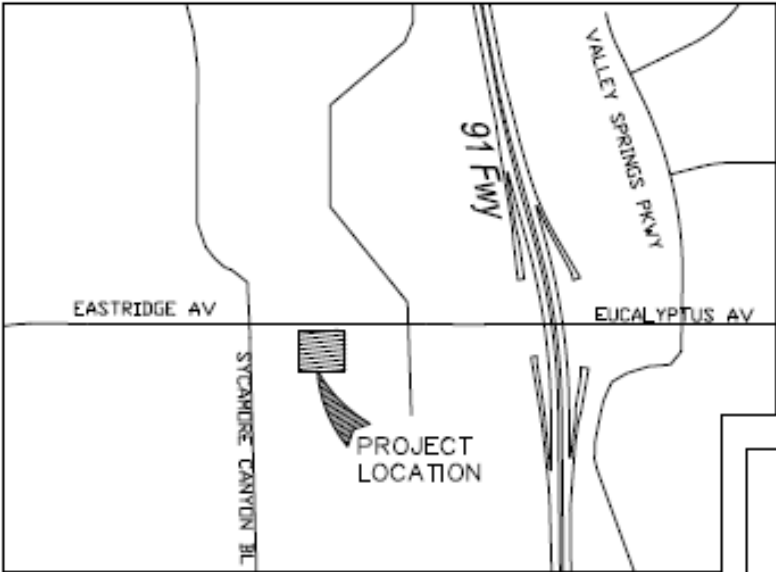
**FISCAL IMPACT:**

The total fiscal impact is \$124,546. Sufficient funds are available in the Public Utilities' Substation Bus Upgrade Account No. 6130000 – 470616.

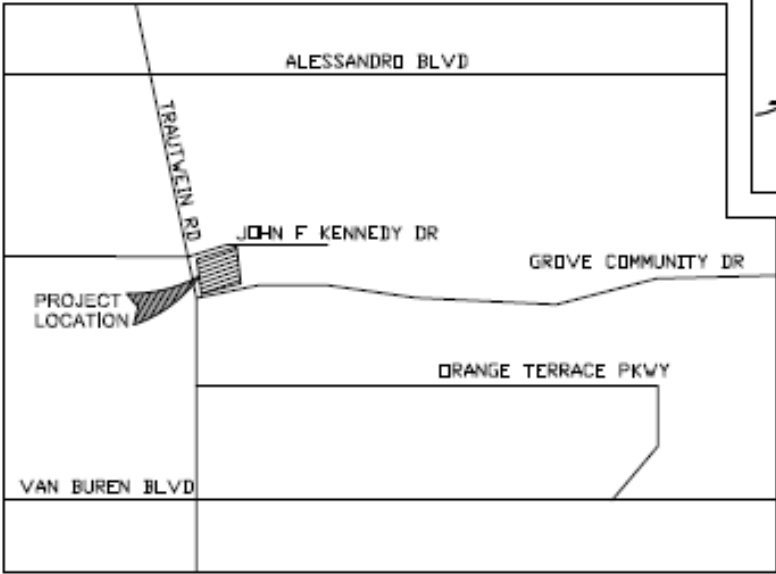
Prepared by: Pat Hohl, Utilities Assistant General Manager/Energy Delivery  
Approved by: Girish Balachandran, Utilities General Manager  
Approved by: John A. Russo, City Manager  
Approved as to form: Gary G. Geuss, City Attorney

Certifies availability  
of funds: Laura Chavez-Nomura, Utilities Assistant General Manager/Finance

SPRINGS SUBSTATION  
69KV BREAKER AND RELAY REPLACEMENT PROJECT  
SITE MAP



CITY MAP



ORANGECREST SUBSTATION  
69KV BREAKER AND RELAY REPLACEMENT PROJECT  
SITE MAP

