

RIVERSIDE PUBLIC UTILITIES

Board Memorandum

BOARD OF PUBLIC UTILITIES

DATE: APRIL 22, 2019

ITEM NO: 8

SUBJECT: UNIVERSITY SUBSTATION RELIABILITY IMPROVEMENT STUDY – WORK ORDER NO. 1903779 IN THE AMOUNT OF \$120,000

ISSUE:

Approve Work Order No. 1903779 in the amount of \$120,000 for the University Substation Reliability Improvement Study.

RECOMMENDATION:

That the Board of Public Utilities approve Work Order No. 1903779 in the amount of \$120,000 for the University Substation Reliability Improvement Study.

BACKGROUND:

City of Riverside and the University of California of Riverside (UCR) have joint ownership of the University Substation (Substation) which is situated on the grounds of UCR at 3800 Canyon Crest Drive. The substation covers approximately 0.8 acres with a chain link fence lining its perimeter. The Substation serves approximately 3,256 customers including UCR.



The Substation was commissioned in May 1962, and it has expanded throughout the years based on the development around the area and its associated load growth. The Substation includes four (4) power transformers, four (4) switchgears, and two (2) sub-transmission lines. Although the Substation has experienced regular load growth over its lifetime, staff is forecasting that it will experience accelerated load growth in the next 10 years.

DISCUSSION:

Both RPU and UCR staff have identified concerns related to the Substation's ownership, maintenance, reliability and load growth. Engineering seeks to conduct a comprehensive study to improve the reliability of the substation, address load growth and joint ownership with UCR, and develop ultimate build-out for the substation.

The joint ownership of the Substation is one of a kind in RPU's system. Some sections of the switchgear are owned by RPU and other sections of the same switchgear are owned by UCR. Furthermore, the Substation land is owned by UCR. This arrangement impacts either owner's ability to perform planned maintenance and make upgrades in response to load growth at the University. UCR staff has indicated interest in a potential transfer of ownership from UCR to RPU. Acquiring the Substation will enable RPU to demolish existing obsolete equipment owned by UCR and install new equipment to address future load growth.

Engineering will be performed by a firm selected from RPU's consultant panel thru a competitive bidding process administered by the Purchasing Department.

The project/fiscal breakdown is as follows:

Project and Fiscal Breakdown		
Work Type	Performed By:	Amount (\$)
Project Management	RPU	\$20,000
Engineering	Consultant Panel	\$90,000
Contingency		\$10,000
Work Order Total:		\$120,000
Anticipated Start Date:		May 2019
Anticipated Completion Date:		October 2019

FISCAL IMPACT:

The total fiscal impact is \$120,000. Sufficient funds are available in Public Utilities Professional Services Account No. 6110000-421000.

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: Gary G. Geuss, City Attorney

Certifies availability
of funds: Aileen Ma, Interim Utilities Assistant General Manager/Finance & Administration

Attachment:

1. Project Site Map
2. Ownership Map