



RIVERSIDE PUBLIC UTILITIES

Board Memorandum

BOARD OF PUBLIC UTILITIES

DATE: JULY 22, 2019

ITEM NO:

SUBJECT: RFP NO. 1810 FOR PROFESSIONAL CONSULTANT SERVICES AGREEMENT FOR SMART GRID COMMUNICATION SYSTEM WITH BURNS & MCDONNELL, INC. FOR A ONE-YEAR TERM IN THE AMOUNT OF \$198,000; AND WORK ORDER NO. 1822537 FOR A TOTAL CAPITAL EXPENDITURE OF \$459,000

ISSUES:

Approve a Professional Consultant Services Agreement in response to RFP No. 1810 for the Smart Grid Communication System with Burns & McDonnell, Inc., of Missouri, Kansas, for a one-year term ending Jun 30, 2020, in the amount of \$198,000; and approve Work Order No. 1822537 for a total expenditure of \$459,000.

RECOMMENDATIONS:

That the Board of Public Utilities:

1. Approve a Professional Consultant Services Agreement in response to RFP No. 1810 for the Smart Grid Communication System with Burns and McDonnell, of Missouri, Kansas, for a one-year term ending June 30, 2020, in the amount of \$198,000;
2. Authorize the City Manager, or designee, to execute the Professional Consultant Service Agreement for RFP No. 1810, including making minor and non-substantive changes; and
3. Approve Work Order No. 1822537 for a total capital expenditure \$459,000 for the Smart Grid Communication System Project.

BACKGROUND:

Riverside Public Utilities (RPU) currently operates, maintains, and relies heavily upon a communications infrastructure based on radio, fiber optics, and commercially provided telecommunications systems. These systems need to be upgraded to provide improved performance, throughput, bandwidth, and reliability to support current operations and future capabilities.

In June 2015, RPU published a Strategic Technology Plan for investment in information and operating technologies. Grid modernization is driving conceptual change in the way RPU will deploy grid components. RPU's Strategic Technology Plan report recommended a Network Communications System (NCS) to enable smart grid implementation of a resilient network suitable for high bandwidth data communications across the RPU area for all sensing and control devices.

The smart grid is the electric grid empowered by infrastructure and equipment that provides real-time, two-way communication for substation, distribution, and customer assets. The NCS is a comprehensive network of voice, data, and control networks required to operate electric and water delivery systems. This

includes microwave, fiber optic, wireless communications, wired communications, electric and water SCADA networks, and future digital communications infrastructure. The new technologies will also help to ensure that electricity recovery resumes quickly and strategically after an emergency.

DISCUSSION:

RFP No. 1810 for a Smart Grid Communication System was posted on the City's Online Bid System on May 29, 2018, and closed on August 9, 2018. The scope of work for this project consists of evaluation and assessment of the existing communication system, providing technology solutions to implement a smart grid communication system, network communications design, and network migration services for implementing the "Smart Grid Communication Technologies" for the electric and water utilities data, voice, and video communication requirements. Four (4) firms submitted proposals for the specified scope of work. Staff evaluated the proposals and deemed Burns and McDonnell, Inc. to be the lowest responsive and responsible proposer.

The proposals are summarized in the table below:

Proposer Firm	Location	Amount	Rating
Burns & McDonnell	Irvine, CA	\$198,000	1
Excergy Corporation	Riverside, CA	\$337,637	2
Mas Teck Inc.	Irvine, CA	\$435,210	3
SCI Networks	Riverside, CA	\$789,800	4
➤ <i>Engineer's Estimate</i>		\$200,000	

The project/fiscal breakdown is as follows:

Project and Fiscal Breakdown		
Work Type	Performed By:	Amount (\$)
Project Management and Engineering	RPU	\$242,000
Professional Services	Burns & McDonnell	\$198,000
Contingency (Professional Services 10%):		\$19,000
Work Order Total:		\$459,000
Anticipated Start Date:		August 1, 2019
Anticipated Completion Date:		June 30, 2020

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

FISCAL IMPACT:

The total fiscal impact is \$459,000. Sufficient funds are available in Public Utilities City-Wide Communications Network Capital Account No. 6130000-470664.

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: Brian Seinturier, Utilities Fiscal Manager

Attachments:

1. Award Recommendation
2. Professional Services Agreement