

EXECUTIVE BRIEF ELECTRIC UTILITY MEETING

AGENDA DATE: June 29, 2021

TITLE:

Task Order No. 5 with TeamworkNET Inc., for engineering design services for the Main Yard Substation Control House Relay Protection and Controls

SUMMARY:

Task Order No. 5 authorizes TeamworkNET Inc., to provide engineering design services for the Main Yard Substation Control House Relay Protection and Controls Project at a cost not to exceed \$127,915. This project has been identified as an element of the City's electric utility System Hardening and Reliability Improvement Project (SHRIP) and for which bonds were sold in November 2020.

BACKGROUND AND JUSTIFICATION:

The City previously issued a Request for Qualifications in 2018 (RFQ 18-303) to provide letters of interest and Professional Qualifications from consulting companies/firms for civil engineering, geotechnical engineering, surveying, architecture, hydrogeological services, energy management and engineering services. TeamworkNET Inc. was one of three firms selected under the Energy Management category for the Continuing Contracts for Professional Services.

As a part of SHRIP, the City's electric utility staff is planning to construct a new hardened control house for the electric utility's main 138kV to 26kV switchyard. The control house will be rated to withstand Category 5 storms and will house high voltage system relay and protection equipment such as protective relays, System Control and Data Acquisition (SCADA) equipment, DC batteries, and HVAC equipment. The new control house will also be capable of serving as an emergency backup control room if needed.

Task Order No. 5 authorizes TeamworkNET to complete development and testing for the Main Yard Substation protective relay settings for use in the new Main Yard Control House. The scope includes collecting the existing protection relay settings, validating and updating logic diagrams for each protective relay. Relay settings will be developed for the new high and low side bus differential relays which did not exist previously. Upon completion of the relay settings development and installation of the new Control House, TeamworkNET will program and test the protection relays during the commissioning phase of the Control House project. The scope of this project was initially to be completed utilizing in-house staff and was excluded from TeamworkNET's scope of work under Task Order No. 3 or any subsequent Task Orders. TeamworkNET will complete the protective relay settings development and testing at a cost not to exceed \$127,915.

MOTION:

Move to approve/disapprove Task Order No. 5 with TeamworkNET Inc., to complete development and testing of the Main Yard Substation Control House Relay Protection and Controls at a cost not to exceed \$127,915.

ATTACHMENT(S):

Fiscal Impact Analysis
Task Order # 5

FISCAL IMPACT ANALYSIS

A. Five Year Summary of Fiscal Impact:

Fiscal Years	2021	2022	2023	2024	2025
Capital Expenditures	\$127,915	0	0	0	0
Operating Expenditures	0	0	0	0	0
External Revenues	0	0	0	0	0
Program Income	0	0	0	0	0
In-kind Match	0	0	0	0	0
 Net Fiscal Impact	 \$127,915	 0	 0	 0	 0
 No. of Addn'l Full-Time Employee Positions	 0	 0	 0	 0	 0

B. Recommended Sources of Funds/Summary of Fiscal Impact: Funds have been identified in account No. 421-6034-531-63.15, Project No. SH2103.

Account Number	Account Description	Project Number	FY21 Budget	Current Balance	Agenda Expenditure	Balance
421-6034-531-63.15	Improve Other than Build / Infrastructure	SH2103	\$2,000,000	\$1,995,000	-\$127,915	\$1,867,085