

# EXECUTIVE BRIEF UTILITY MEETING

**AGENDA DATE:** April 26<sup>th</sup>, 2022

**DEPARTMENT:** Electric Utility

**TITLE:**

Purchase Order with Systems With Intelligence

**SUMMARY:**

The Purchase Order authorizes Systems With Intelligence (SWI) to provide video monitoring equipment, maintenance & support and commissioning for the new Canal 138kV Switchyard and Canal 8-Bay Distribution Substation projects in the amount not to exceed \$160,372. 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's Engineering team in conjunction with the City's sub-consultant, Power Engineers, evaluated several different camera and video monitoring systems for the new Canal 138kV Switchyard and 8-Bay Distribution Substations. It was determined SWI offered the best solution and was incorporated in both the 138kV Switchyard and 8-Bay Distribution substation design packages and will be incorporated into the construction documents for installation.

The design of the new substations incorporates state of the art video monitoring & camera systems. Systems With Intelligence provides visual monitoring solutions that enable a real-time view of substations ensuring safety and security of personnel and site. With these advanced solutions instantly confirm substation conditions remotely and inspect live equipment before and after deploying personnel to site. The new camera systems incorporate thermal imaging and infrared detection which can detect sudden changes in equipment temperature in addition to unwanted visitors during the day or night. The SWI camera system will be integrated with the Electric Utilities Supervisory Control and Data Acquisition (SCADA) system to assist in monitoring equipment temperature and site security. The video monitoring equipment, software and data will only be accessible to the System Operators and engineering staff and will be utilized to maintain a safe and secure environment. The SWI camera systems will be installed by the awarded contractor during the construction phase of project. This system will be part of the City's security system and information regarding the system and the video from the same is and will be exempt and confidential from public disclosure. Accordingly, this item is being presented without the underlying design documents to ensure such information is kept confidential and secure.

Under Section 2-112 (e)(1) of the City's Procurement Code, the Electric Utility is requesting a single/sole source procurement with Systems With Intelligence for the purchase of the substation cameras and monitoring equipment. SWI is the only vendor to offer built in utility grade surge protection, integrated SCADA communication protocols and synchronized panning between the thermal and visual cameras which can be utilized to detect an issue or intruder.

The Electric Utility is requesting the approval of Purchase Order with SWI for the new 138kV Canal Switchyard and Canal 8-Bay distribution substation video monitoring and camera systems in the amount of \$160,372

**MOTION:**

Move to approve/disapprove Purchase Order with Systems With Intelligence for the new 138kV Canal Switchyard and Canal 8-Bay distribution substation video monitoring and camera systems in the amount of \$160,372

**ATTACHMENT(S):**

Fiscal Impact Analysis  
SWI Sole Source Letter  
SWI Quote

**FISCAL IMPACT ANALYSIS**

**A. Five Year Summary of Fiscal Impact:**

<b>Fiscal Years</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>
Capital Expenditures	\$160,372	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
<b>Net Fiscal Impact</b>	<b>\$160,372</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>No. of Addn'l Full-Time Employee Positions</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**B. Recommended Sources of Funds/Summary of Fiscal Impact:** Funds have been identified in account 421-6034-531-63.16, Project SH2001 for the Canal 138kV Switchyard and 421-6034-531-63.15, Project SH 2113 for the Canal 8-Bay Distribution Substation.

Account Number	Department Name	Division Name	Account Description	Project Number	FY22 Budget	Current Balance	Budget Transfer	Agenda Expenditure	Balance
421-6034-531-63.16	Electric	T&D	Improve Other than Build / Infrastructure	SH2001	6,443,513	\$5,689,837		\$65,423	\$5,624,414
421-6034-531-63.15	Electric	T&D	Improve Other than Build / Infrastructure	SH2113	6,220,800	\$3,434,128		\$94,949	\$3,339,179