

EXECUTIVE BRIEF UTILITY MEETING

AGENDA DATE: July 26, 2022

DEPARTMENT: Electric Utility

TITLE:

Purchase Order with Stuart C. Irby Company for GE current limiting reactors

SUMMARY:

The Purchase Order authorizes Stuart C. Irby Company to provide current limiting reactors for the new Canal Distribution Substation at a cost not to exceed \$157,890. 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 Electrical Engineering team is finalizing the design of the new Canal 26.4kV Distribution Substation. The design of the new substation incorporates the installation of current limiting reactors. Current limiting reactors are designed to limit the fault currents to levels compatible with existing protection/control equipment. The primary advantages of a current limiting reactor are: reduction of electromechanical loading, reduce thermal stress of transformers and switchgear and improvement of the stability of primary bus voltage during a fault on feeder.

The Electric Utility has standardized new substation designs and equipment selection to include the GE current limiting reactors. During the design and equipment selection process for the newly constructed 7th Ave N substation, several reactor manufacturers were evaluated and quotes were obtained. The GE reactors offered the City the best value, met the specification requirements and were selected as the standard equipment.

On May 31, 2022 the City Commission approved the purchase of GE reactors in the amount of \$62,785. The reactors approved were the standard 800A Current Limiting Reactors and can be utilized at future substations such as 6th Ave South. Unfortunately, the 800A Current Limiting Reactors are undersized for use at the new Canal 8-Bay Substation.

Under Section 2-112 (e)(1) of the City's Procurement Code, the Electric Utility is requesting a single/sole source procurement with Stuart C. Irby Company for the purchase of GE Air Core 1200 A Current Limiting Reactors for the Canal 26.4kV Distribution Substation. The Stuart C. Irby Company is the sole source provider of GE Air Core Reactors for this region.

The Electric Utility is requesting the approval of Purchase Order with Stuart C. Irby for the Canal Substation 1200A Current Limiting Reactors in the amount not to exceed \$157,890. The GE 1200A reactors are included in the design and material specifications package prepared and submitted by Power Engineers.

MOTION:

Move to approve/disapprove Purchase Order to the Stuart C. Irby Company, to provide GE Air Core current limiting reactors in the amount not to exceed \$157,890.

ATTACHMENT(S):

Fiscal Impact Analysis
 GE Quote
 GE Sole Source Letter

FISCAL IMPACT ANALYSIS

A. Five Year Summary of Fiscal Impact:

Fiscal Years	2022	2023	2024	2025	2026
Capital Expenditures	\$157,890	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	\$157,890	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 401-6034-531-63.15, CIP Project SH2113.

Account Number	Department Name	Division Name	Account Description	Project Number	FY22 Budget	Current Balance	Budget Transfer	Agenda Expenditure	Balance
421-6034-531-63.15	Electric	T&D	Improve Other than Build / Infrastructure	SH2113	6,220,800	3,348,429	N/A	157,890	\$3,190,539