

**AGENDA ITEM EXECUTIVE SUMMARY**

Agenda Item number: 5.e

Title:

Recommendation to Approve Purchase Order with Border States for Substation Reclosers

Presenter:

Tom Bruhl

Meeting: Government Services Committee

Date: November 27, 2017

Proposed Cost: \$285,912

Budgeted Amount: \$300,000

Not Budgeted: **Executive Summary** *(if not budgeted please explain):*

Substation reclosers are a key element in the City of St. Charles electric system. These devices sense problems on the system and will interrupt power for short periods of time, open and then “reclose”, as some problems are transient. The momentary interruptions on the City system are due to reclosers doing their job. For permanent faults that do not clear, the reclosers will make multiple attempts to restore power and then will stay open.

We have had a number of catastrophic failures of these devices from wildlife contact or mechanical issues over the last two years. Triggered by reliability statistics, a program was developed to modernize our recloser fleet, one of which turned 50 years old this year and numerous others are over 40 years old.

Purchasing went out for and received five bids, although one bid offered only an alternate control to the standard bid spec. This bid included the reclosers for the replacement program as well as the new devices for Legacy Substation. Border States bid met all bid requirements and no exceptions were taken.

Attachments *(please list):*

* Bid Tabulation

Recommendation/Suggested Action *(briefly explain):*

Recommendation to Approve Purchase Order with Border States for Substation Reclosers in the amount of \$285,912

	Bidder	Power Line Supply	SEL	E-ESS (note 4)	ABB	Border States
1200A VSA	Bid price each	\$18,836.04		\$26,505.03	\$20,354.00	\$17,670.00
800A VSA	Bid price each	\$16,160.41		\$22,740.03	\$11,842.00	\$15,160.00
Controller	Bid price each	\$6,175.28	\$6,109.00	\$8,689.51	\$7,062.00	\$5,793.00
	Number of items					
800A VSA repl (note 1&3)	12	\$193,924.92	N/A	\$272,880.36	\$226,848.00	\$181,920.00
800A recloser sub 9 (note 2)	3	\$48,481.23	N/A	\$68,220.09	\$59,210.00	\$45,480.00
1200A VSA repl (note 3)	1	\$18,836.04	N/A	\$26,505.03	\$20,354.00	\$17,670.00
1200A main Sub 9 (note 2)	1	\$25,011.32	N/A	\$35,201.54	\$40,708.00	\$23,463.00
Controller (note 2)	3	\$18,525.84	\$18,327.00	\$26,068.53	\$35,310.00	\$17,379.00
		\$304,779.35		\$428,875.55	\$382,430.00	\$285,912.00

Notes:

- 1) ABB replacement includes controller as ABB recloser uses 24 pin control cable
- 2) For the ABB column spares are included in the cost (2 - 800A spare, 1- 1200A spare and 2 spare controllers)
- 3) Replacement of existing VSA reclosers with the ones offered by ABB would incur significant additional man hours
- 4) E-ESS (Eaton Engr Services) prices include on-site comissioning