



Legislation Text

File #: 22-0198, Version: 1

CITY COUNCIL AGENDA ITEM

ACTION REQUESTED:

Approve the award of RFP 21-355, Tollway Substation Reliability Upgrade, to Sargent & Lundy, LLC for an amount not to exceed \$339,240

DEPARTMENT: Electric Utility

SUBMITTED BY: Brian Groth, Director

BOARD/COMMISSION REVIEW:

N/A

BACKGROUND:

The Naperville Electric Utility (Utility) Tollway Substation has experienced several 34.5kV bus flashovers in the past few years. These flashovers cause extended outages to critical industrial and commercial customers located along the I-88 corridor. The primary cause of these failures has been determined to be related to salt contamination from the adjacent I-88 tollway. Regular cleaning of the bus has proven ineffective at preventing the flashovers and requires labor intensive periodic maintenance. By relocating the 34.5kV bus indoors, the Utility will eliminate the primary cause of failures, improving reliability and reducing maintenance efforts.

In addition, one of the transformers connected to the 34.5kV bus at the Tollway substation does not allow for voltage regulation. By retiring this transformer and installing a new transformer at the substation the Utility can gain operational flexibility.

Finally, two out of the five 138kV breakers at the Tollway substation have reached end of life. Both breakers are slated for replacement allowing the Utility to gain much needed spare parts and initiate the process of phasing out these style of circuit breakers from the system.

The complexity of the design scope warrants the use of an outside consultant experienced in brown field substation design. In October 2021, the Electric Utility issued RFP 21-355, Tollway Substation Reliability Upgrade, to obtain an experienced and qualified design engineering firm to complete engineering design, construction support, and as-built incorporation to address the above concerns.

DISCUSSION:

Advertisement Date:	10/19/2021	Notices Sent:	228
Opening Date:	11/10/2021	Planholders:	28
		Proposals Received:	6

Proposals were received from the following vendors:

SynchroGrid

Valdes Engineering Company

A Star Electric

Sargent & Lundy, LLC

Mesa Associates, Inc.

A selection team comprised of staff from the Electric Utility evaluated the proposals, which were scored based upon the criteria set forth in the RFP:

1. Capability, Capacity and Qualifications of the Firm (30%)
2. Suitability and Quality of the Approach/Methodology (40%)
3. Milestones and Deliverables (30%)

After review and scoring of the proposals, the selection committee invited the top three vendors, Mesa Associates, Inc., Sargent & Lundy, LLC and SynchroGrid, to attend interviews. Following the completion of the interviews, the selection committee rescored the vendors. The vendor with the highest qualification score, Sargent & Lundy, is recommended for award. The table below provides a summary of the final qualification scores:

Vendor	Qualification Score
Sargent & Lundy, LLC	83.5
Mesa & Associates,	79.4
Synchrogrid	78

The anticipated completion date of the project is December 31, 2025.

FISCAL IMPACT:

CIP#: EU86

Tollway Substation Reliability Upgrades are expensed to the Infrastructure account listed below. This work is related to EU086, Tollway Substation Reliability Upgrades, of which \$1,000,000 has been budgeted in 2022. The requested award is within the budgeted amount for this expense.

Account Number	Fund Description	Total Budget Amount
40251300-551502	Electric Utility	10,444,067.00