



Department Source: City Utilities - Water and Light

To: City Council

From: City Manager & Staff

Council Meeting Date: October 2, 2023

Re: Authorizing construction of the addition of one (1) new 69 kV station class transformer and switchgear lineup at the Perche Creek Substation, calling for bids through the Purchasing Division, authorizing a contract for work using a term and supply contract, or performing the work using city forces; amending the FY 2024 Annual Budget by appropriating funds.

Executive Summary

Staff has prepared for Council consideration an ordinance authorizing construction and issuing a contract for the work through use of a term and supply contract, a bid call through the Purchasing Division or utilizing city forces, for the addition of a station class transformer and associated switchgear at the Perche Creek Substation, shown on the attached Location Map. A public hearing was held on August 7, 2023. The resolution estimate for this project is \$2,100,000. This ordinance includes an appropriation for \$1,100,000 to complete the project and will be reallocated from Electric Utility bond funded capital improvement projects.

Discussion

This project will add a third 69/13.8kV station class transformer and switchgear lineup to Perche Creek substation. The two existing transformer lineups have a capacity of 20MVA. The new transformer lineup will also have 20MVA capacity. This improvement will provide better redundancy for reliability and maintenance of the system. The two existing station class transformers are able to serve existing load, but would be unable to do so in the event that one of them was rendered inoperable due to a malfunction or external event. Adding a third transformer increases the electric reliability and redundancy for load being served by this substation. This substation has seen an increase in load to serve the new developments on the west side of Columbia. Both the Water Treatment Plant and the Wastewater Treatment Plant are served by Perche Creek Substation. A third transformer will provide increased electric reliability to these essential services provided by the City.

An Interested Parties (IP) Meeting was held on May 17, 2023, at City Hall and a public hearing for this project was held on August 7, 2023. This ordinance authorizes construction through use of the City's term and supply contracts, construction by city forces, or by bidding through the Purchasing Division. The resolution estimate for the project is \$2,100,000. There is currently \$1,000,000 available in the project. The ordinance includes an appropriation of \$1,100,000 to provide the necessary funding to cover the cost of the project. As directed by City Council at the public hearing, funds will be reallocated from the following bond funded capital improvement projects:

- \$1,100,000 from E0121 New South Side 161/13.8 kV Substation



Fiscal Impact

Short-Term Impact: The resolution estimate is \$2,100,000.

Long-Term Impact: Minimal impact to operations costs.

Strategic & Comprehensive Plan Impact

Strategic Plan Impacts:

Primary Impact: Reliable and Sustainable Infrastructure, Secondary Impact: Not Applicable,

Tertiary Impact: Not Applicable

Comprehensive Plan Impacts:

Primary Impact: Infrastructure, Secondary Impact: Not applicable, Tertiary Impact: Not Applicable

Legislative History

Date	Action
08/07/2023	PH32-23 Proposed addition of one (1) new 69 kV station class transformer and switchgear lineup at the Perche Creek Substation
07/17/2023	R106-23 Setting a public hearing: proposed addition of one (1) new 69 kV station class transformer and switchgear lineup at the Perche Creek Substation. transformer and switchgear addition.
05/17/2023	Interested Parties (IP) Meeting

Suggested Council Action

Approval of the ordinance.