



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 Perche Creek Substation 161 kV bus reconfiguration, calling for bid through the Purchasing Division, authorizing a contract for the 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 by bid call through Purchasing Division or use of city forces for the construction of the Perche Creek Substation 161 kV bus reconfiguration shown in the attached Location Map. A public hearing was held on August 7, 2023. The resolution estimate for this project is \$1,200,000 and this ordinance includes an appropriation for \$1,200,000 to complete the project. Funds will be reallocated from Electric Utility bond funded capital improvement projects.

## Discussion

This project will replace inoperable circuit switchers on the Perche Creek Substation 161kV bus with new circuit breakers. Circuit switchers are protection devices meant to protect equipment from electric faults on the transmission line or bus. Circuit breakers are more reliable for this function and are planned to be installed to replace the failed circuit switchers. In order to replace the circuit switchers with breakers, the 161kV bus and transmission interconnection structures will need to be rebuilt. In addition to replacing the two circuit switchers, a third tie breaker will be added to the 161kV bus to increase reliability. Upgrading the configuration will provide more ability to efficiently maintain and repair the system, thereby potentially reducing outage times for significant events. Additional work will also take place in order to accommodate a future 161kV transmission interconnection structure. There is sufficient space on the Perche Creek Substation property to accommodate this proposed reconfiguration.

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. An appropriation of \$1,200,000 is included in the ordinance 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:

- \$95,568 from E0198 Underground Distribution in Transmission Corridor
- \$1,104,432 from E0121 New South Side 161/13.8 kV Substation



## Fiscal Impact

Short-Term Impact: The resolution estimate is \$1,200,000.

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	PH31-23 Proposed reconfiguration of the 161 kV bus at the Perche Creek Substation
07/17/2023	R105-23 Setting a public hearing: proposed reconfiguration of the 161 kV bus at the Perche Creek Substation.
05/17/2023	Interested Parties (IP) Meeting

## Suggested Council Action

Approval of the ordinance.