



Department Source: City Utilities - Water and Light

To: City Council

From: City Manager & Staff

Council Meeting Date: February 17, 2020

Re: Professional Services Agreement with Leidos Engineering, LLC to Conduct a Dynamic Study of the Electric Transmission System.

## Executive Summary

Staff has prepared for Council consideration an ordinance authorizing the City Manager to execute a professional services agreement with Leidos Engineering, LLC, a professional engineering firm, to perform local and regional electric transmission dynamic system modeling and transient analysis for stability. To ensure continued compliance with the North American Electric Reliability Corporation's (NERC) standards, it is required that the City conduct a dynamic study and analysis for near-term and long-term electric transmission planning and to identify any critical assets. This study must meet the requirements set forth in NERC Transmission Planning (TPL) and Critical Infrastructure Protection Standards (CIP) and will be conducted for a near-term (1-5 years) and long term (6-10 years) analysis.

## Discussion

After the reviewing the scope to perform a dynamic stability assessment of the City's transmission system with Council (REP84-19), staff released RFQ 115/2019 for Electric Transmission Dynamic Studies Engineering Services. Leidos Engineering, LLC has been selected as a result of the RFQ process.

Leidos Engineering, LLC has previously performed a dynamic study of the electrical transmission system for the City in 2014. The project team consists of consulting engineers with technical expertise in modeling, simulations, system protection, dynamic stability and NERC compliance.

This is a highly specialized analysis that must be completed every 5 years in order to be in compliance with NERC transmission planning standards. The city does not have the ability to conduct this analysis in house. The results are referenced in annual transmission system analysis and Critical Infrastructure Protection Standards categorization exercises.

The cost for this study is not to exceed \$57,912 and will be charged to the Large Dollar Annual Contractual account within the Electric Generation Operating budget for which funds have already been appropriated.

## Fiscal Impact

Short-Term Impact: \$57,912 charged to the Large Dollar Annual Contractual account within the Electric Generation Operating budget for which funds have already been appropriated  
Long-Term Impact: \$0



## Strategic & Comprehensive Plan Impact

### Strategic Plan Impacts:

Primary Impact: 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
10/07/2019	REP84-19 Dynamic Study Request for Proposal

## Suggested Council Action

Authorize the City Manager to execute the professional services agreement with Leidos Engineering, LLC for the Dynamic Study of the Electric Transmission System.