



Department Source: City Utilities - Water and Light

To: City Council

From: City Manager & Staff

Council Meeting Date: October 7, 2019

Re: Dynamic Study Request for Proposal Report

Executive Summary

A Request for Proposal (RFP) for services to perform dynamic system modeling and transient analysis for electric system stability to ensure continued compliance with North American Electric Reliability Corporation standards has been drafted. Council has requested information regarding the nature of the services to be performed under this RFP.

Discussion

The City is required to be registered with the North American Electric Reliability Corporation (NERC) for several functional registrations including Transmission Owner and Transmission Planner. To be in compliance with NERC standard TPL-001-4 Transmission System Planning Performance Requirements, Transmission Planners are required to prepare an annual Planning Assessment of their portion of the Bulk Electric System.

Requirement 2.4 requires that stability analysis shall be assessed annually and be supported by current or past studies. Water & Light's engineering staff currently has the ability to perform steady state and short circuit studies in house, but does not have the resources to perform stability analysis. Requirement 2.6.1 requires that the studies be 5 years old or less, unless a technical rationale can be provided to demonstrate that the results of an older study are still valid. The last stability analysis was performed by Leidos in December 2014.

An RFP for services to perform dynamic system modeling and transient analysis for stability to ensure continuing compliance with the TPL-001-4 standard has been drafted. The draft is at Purchasing and will be held until Council is ready to release this RFP for services to perform dynamic system modeling and transient analysis for electric system stability.

Fiscal Impact

Short-Term Impact: None

Long-Term Impact: None

Strategic & Comprehensive Plan Impact

[Strategic Plan Impacts:](#)

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



City of Columbia

701 East Broadway, Columbia, Missouri 65201

Comprehensive Plan Impacts:

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

Legislative History

Date	Action
None	None

Suggested Council Action

Staff recommends Council accept the report and allow the RFP for services to perform dynamic system modeling and transient analysis for electric system stability to go forward as submitted.