	AGENDA ITEM EXECUTIVE SUMMARY	**Agenda Item number:** 5.D
	Title: Recommendation to Approve a Resolution Authorizing a Purchase Order for Substation SEL Breakers and SEL Engineering Services for Programming	
	Presenter: **Paul Hopkins**	

Meeting: Government Services Committee   **Date:** November 27, 2023

Proposed Cost: $ 100,000	**Budgeted Amount:** $ 100,000	**Not Budgeted:** ☐

Executive Summary (if not budgeted, please explain)**:**

Substation breakers are used for protection of both the 34,000 volt high side and the 12,470 volt low sides of substation transformers, as well as all 51 of the 12,470 volt distribution circuits leaving the substations to power the Electric Utility Distribution Infrastructure for the City.

There are two manufacturing brands of substation breakers currently in use in our system, SEL and Eaton/Cooper, which do not all have similar operational capabilities and which are all positioned exterior to the substation buildings proximate to the high voltage loads they are switching. Most of the existing breakers have not had their operational CPUs or communication modules upgraded and we have had several failures that have prevented communications to our SCADA system and complicated both daily and outage operations at several substations. Relays need to be replaced with up-to-date units and programming that are operationally standardized for all substations. Getting replacement units will be ongoing until each substation has been upgraded and the substations become operational, which will likely require three more fiscal years in addition to the current fiscal year and budget.

Attachments (please list)**:**

None

Recommendation/Suggested Action (briefly explain)**:**

Recommendation to Approve a Resolution Authorizing a Purchase Order to Schweitzer Engineering Laboratories and SEL Engineering Services to obtain and program new SEL relays.