



CITY OF MARSHALL AGENDA ITEM REPORT

Presenter:	Jason Anderson
Meeting Date:	Tuesday, January 23, 2024
Category:	NEW BUSINESS
Type:	ACTION
Subject:	Wastewater Treatment Plant Generator Woodward Controller Replacement
Background Information:	<p>The main plant generator located at the wastewater facility was put into service in October 2003. The generator is used to provide critical emergency power to the plant in the event of an outage. It is also used by MMU to load shed during peak energy demand events which helps to keep electrical rates low in Marshall.</p> <p>The generator utilizes a seamless power transfer switchgear to switch between generator and utility power. This is accomplished by utilizing a Woodward EGCP-2 Sync and Load Control Module that monitors the power and Hz of both the generator and the utility power along with critical generator operating parameters. The EGCP-2 will connect the generator to the utility power, slowly transfer the electrical load to the generator, and once completed, will disconnect the wastewater facility from the utility power. The reverse happens when switching back to utility power.</p> <p>Our existing Woodward EGCP-2 computer is over 21 years old and was identified as obsolete during routine maintenance by Ziegler Power Systems. We have had three separate recent failures in 2018, 2019, and 2020 in which, after removing and cycling power, the computer recovered. Because it is obsolete, and parts are not available anymore, replacement is recommended. Two other components, the switchgear PLC and Generator Set Controller, were also identified as obsolete and we will be budgeting to replace them in the near future.</p>
Fiscal Impact:	The Wastewater CIP includes funds to cover the \$52,162.10.
Alternative/ Variations:	No alternative actions recommended.
Recommendations:	that the Council authorizes replacing the existing EGCP-2 with a EasyGen controller.