

TO: Kate Thunstrom, City Administrator
FROM: Paul Carpenter, Public Works Director
SUBJECT: Programable Logic Controller Replacement
DATE: January 16, 2024

OVERVIEW:

The Programable Logic Controller (PLC) is the “brain” that is integrated into the water plant and wellhouse, without it the wellhouse cannot pump water, or fill the water tower, and the water plant cannot make water. The current PLC is obsolete and is beyond repair and needs to be replaced. The City’s integrator, Total Control, will have to shut down the system and replace the PLC when the City’s water use is at a minimum because there is no way to pump water for 24 hours while this is being done. Public Works will supply water during this period from the water tower.

The tentative installation date is Fall of 2024 primarily because it will take time to acquire the hardware/software needed for the job.

ACTION TO BE CONSIDERED:

Council to approve the replacement of the Programable Logic Controller in the Water plant and Wellhouse.

BUDGET IMPLICATION:

The PLC is a CIP equipment item planned to be replaced in 2024. \$95,000 is set aside in the CIP.

Attachments:

- Total Control Systems replacement pricing for the wellhouse and water plant controllers.