



MEMORANDUM

DATE: January 8, 2019
TO: Dan Duchniak
FROM: Kelly Zylstra
RE: Approval for the 2019 SCADA Project

Since the 1960's, the Utility has used an integrated control system to operate and monitor all remote pumping stations, storage reservoirs/towers, and water treatment facilities throughout our distribution system. This system operates and monitors the water system 24 hours per day, 7 days per week.

In 1995, the Utility upgraded from a proprietary control system to an open architecture design with intent of allowing future upgrades to the system without completely replacing it. This approach has allowed the Utility to add new treatment and pumping facilities without major upgrades to the Central System.

In 2008 and 2012 desktops were purchased, in 2014 two laptops were added to the system, and in 2016, a SCADA server was purchased to help facilitate remote log in access while remaining a separate and secure system. Due to the age of the computers, the current operating system, Windows 7, will no longer be supported after January 14, 2020. In addition, our current version of the SCADA software, Wonderware - while it does support Windows 10, is a full two revisions behind.

To continue to maintain a safe and secure computer system, we need to purchase two replacement desktop units, and two replacement laptops for our SCADA system. With regards to the software upgrades, it is important that the system is upgraded before we transition to Great Lakes water. During our transition, staff will be concentrating our efforts on the programming that will operate the new Booster Pumping Station that will deliver Great Lakes water to the city. It is preferable to have the most recent version in place at that point to ensure a smooth transition. Therefore, it is in our best interest to have this transition take place now and staff builds familiarity with the nuances of the new version. Therefore, in addition to the hardware purchase, we are proposing to upgrade our Wonderware software, our alarm system software, and our reporting system software. Knowing this, the 2019 budget includes \$37,000 for the SCADA system upgrades in account 3971-300.

Based on our past experience sourcing the hardware, software, installation, startup and staff training from our current SCADA vendor makes the transition more cost effective, streamlined and reduced staff labor time associated with the project. Therefore, we are recommending Energenecs provide this work. To ensure costs are competitive, we have compared the pricing to that of similar products the utility has received under the state contract from other vendors and are confident pricing is acceptable.

Recommended Motion: Approve the proposal from Energenecs for the 2019 SCADA Computer Upgrades for an amount not to exceed \$36,900.