



1202 Musser Street
Muscatine, IA 52761-1645
(563) 263-2752
Fax (563) 263-3720

WATER POLLUTION CONTROL

MEMORANDUM

To: Gregg Mandsager, City Administrator

CC: Nancy Lueck, Finance Director
Fran Donelson, Secretary

From: Jon Koch, WPCP Director

Date: July 1, 2016

Re: Laboratory ICP Power Conditioner Purchase

INTRODUCTION: The Water Pollution Control Plant (WPCP) laboratory has received two bids for a power conditioner to protect the Inductive Coupled Plasma (ICP) equipment from power surges due to lightning strikes and other inconsistencies with the power source. Davenport Electric submitted the low bid for purchase and installation of an Xtreme Power Conversion XPRT 10KVA for \$7,725.00. TriCity Electric bid \$8,700.00 for the same equipment.

BACKGROUND: The WPCP purchased the ICP for certified metals analysis in 2013. Shortly after purchasing the equipment a lightning strike caused a power surge at the treatment plant and caused over \$10,000 worth of damage to the ICP. Installation of a larger power conditioner was explored during the construction of the new laboratory and found to be too expensive. This is a small unit that will be used to protect the most vulnerable and expensive piece of equipment in the lab.

RECOMMENDATION/RATIONALE: Staff recommends the purchase and installation of the Xtreme Power Conversion XPRT 10KVA from Davenport Electric for \$7,725.00.