

**Agenda Item:** Consider approval of power monitor procurement

**Objective:** Provide a summary of the power monitor purchase request.

**Background:** The Power Monitoring Upgrade includes the installation of power monitoring equipment and replacement of motor starters, variable frequency drives (VFDs) and programmable logic controllers (PLCs) along with the construction of necessary communication network infrastructure to transition from the current communication protocol to Ethernet/Internet Protocol (IP). The project scope impacts both the Point of the Mountain Water Treatment Plant (POMWTP) and the Little Cottonwood Water Treatment Plant (LCWTP).

In accordance with District Policies and Procedures 6-702(2) which states “*Except as otherwise instructed by the Board, requests for proposals are allowed for procurement of goods and services related to Process Control/Supervisory Control and Data Acquisition (PC/S) system instrumentation.*”, five power monitors were evaluated in predesign for compatibility, functionality, ease of networking, cost, and life expectancy.

<b>Monitor</b>	<b>Manufacturer</b>
Multilin PQM II	General Electric
Shark 200	Electro Industries
PXM 2270	Eaton
PowerMonitor 5000	Allen-Bradley
Multilin EPM 7000	General Electric

Two monitors met the District’s requirements: PowerMonitor 5000 and Multilin EPM 7000. District staff purchased both monitors for testing and discovered the Multilin monitor required additional equipment to interface with the District’s infrastructure, creating an additional point of failure and added cost. The Allen Bradley PowerMonitor 5000 was thus selected for the project.

The District’s contractor is procuring and installing power monitors at POMWTP. District staff is procuring and installing power monitors at LCWTP, comprised of 17 AB5000, 42 AB1000, and spares, for a total of 70 power meters. Codale Electric Supply, Inc. is the sole source supplier for Allen-Bradley equipment in Utah. The monitor cost is \$143,915.00. Budget for this procurement is \$157,372.00.

**Committee Activity:** This item has not been discussed with the Engineering Committee.

**Recommendation:** Staff recommends award of \$143,915.00 to Codale Electric Supply, Inc. for the procurement of 70 power monitors.