



Meeting Date: February 1, 2016

Consent Docket Item #: 2c

Report: SUA-16-11

Department: Electric Utility

Subject: Sole Source Purchase for proprietary equipment and software for the Supervisory Control and Data Acquisition (SCADA) Upgrade from Advanced Control System (ACS)

Budget Impact: The total cost of the upgrade is \$420,310. This item requires no new appropriation or budget amendment and will not affect year-end projected balances. Funding is available in the SCADA system upgrade project account established in the electric Rate Stabilization Fund.

Alternatives:

1. Authorize staff to enter into a contract with ACS for the SCADA upgrade.
2. Direct staff to solicit bids for a new SCADA system. Replacement of the existing system would require extensive hardware/software changes throughout the entire system adding significantly more cost.
3. Continue to operate with the current system. As the current system becomes further outdated, hardware and support will become very difficult to find. System performance, reliability and security could be compromised resulting in more frequent and longer outages.

Recommendation: Staff recommends the Trustees authorize a sole source purchase from ACS for the SCADA system upgrade in the amount of \$420,310 and authorize expenditures from the SCADA system upgrade project fund up to \$462,341 (10% contingency).

Background Information: The SCADA system's primary function is to monitor and control Stillwater Electric Utility's (SEU) substation and transmission system and to monitor power purchases from GRDA. The SEU SCADA system utilizes Advanced Control System (ACS) proprietary equipment and software, both at the control location and at the substations. This proposed upgrade is required to enable the SEU SCADA system to utilize the fiber optic network to communicate with the substations, improve SCADA system reliability and add an alternate control location for disaster contingency. With this in mind, staff requested a proposal from ACS to upgrade the current system. The proposal included the following:

1. Replacement of the existing Hewlett-Packard (HP) Linux workstations, which are end-of-life (beyond manufacturer support), with new HP servers and workstations.
2. Addition of an alternate SCADA control location for disaster contingency.
3. Upgrading ACS substation equipment for network capability.
4. Procurement and custom configuration of SCADA fiber optic network switching equipment for best performance, reliability and security.