

Legislation Text

File #: BILL NO. 18-203, **Version:** 1

An Ordinance authorizing the execution of Addendum No. 6 to an agreement by and between the City of Lee's Summit, Missouri and HDR Engineering, Inc. for the design of a new control system for the utilities Supervisory Control and Data Acquisition (SCADA) system in the amount of \$84,370 and authorizing the City Manager to enter into the same. (PWC 11/27/18)

Issue/Request:

Approval of an engineering contract for the design of equipment, software, and programming for the SCADA control system for Lee's Summit Water Utilities.

Key Issues:

- Lee's Summit uses a Supervisory Control and Data Acquisition (SCADA) system to monitor and control the pump stations, water towers, valves and miscellaneous remote sites to operate the water and sewer system.
- The SCADA system is included in the Utility's Equipment Replacement Program (ERP) and has been undergoing upgrades as specified by the SCADA Masterplan and funded by the ERP.
- Currently the SCADA system is receiving a communications upgrade moving the system from leased copper lines to radio and fiber optic communication. This project should be complete this month.
- The next phase of the SCADA upgrade will be to replace the existing base equipment and software or Human Machine Interface (HMI) with a newer version as specified in the SCADA Masterplan.
- The SCADA Masterplan and the SCADA communications design were both completed by HDR Engineering Inc.
- The attached contract will hire HDR to create the HMI specifications and bid documents in order to finish the upgrade of our SCADA system as per the ERP and the SCADA Masterplan.

Proposed City Council Motion:

FIRST MOTION: I move for a second reading of an Ordinance authorizing the execution of Addendum No. 6 to an agreement by and between the City of Lee's Summit, Missouri and HDR Engineering, Inc. for the design of a new control system for the utilities Supervisory Control and Data Acquisition (SCADA) system in the amount of \$84,370 and authorizing the City Manager to enter into the same.

SECOND MOTION: I move for adoption of an Ordinance authorizing the execution of Addendum No. 6 to an agreement by and between the City of Lee's Summit, Missouri and HDR Engineering, Inc. for the design of a new control system for the utilities Supervisory Control and Data Acquisition (SCADA) system in the amount of \$84,370 and authorizing the City Manager to enter into the same.

Background:

The SCADA System has been undergoing upgrades as part of the Utility's Equipment Replacement Program (ERP) and as recommended in the SCADA Master Plan. The first component has been the upgrade of the SCADA communications system which will be complete by the end of this month. The next phase of this upgrade will be the replacement of the computers and software which control the various remote Water Utilities sites.

The SCADA Master plan reviewed various vendors and Human Machine Interface (HMI) programs for the control of this system and made recommendation based on a weighted matrix of components and needs set by the Utility. This project will provide a design for bid by integrators based around the selected HMI to provide equipment, software and programming for the SCADA control system.

Jeff Thorn, P.E. Assistant Director of Engineering Services, Lee's Summit Water Utilities

Staff Recommendation: Staff recommends approval of an Ordinance authorizing the execution of Addendum No. 6 to an agreement by and between the City of Lee's Summit, Missouri and HDR Engineering, Inc. for the design of a new control system for the utilities Supervisory Control and Data Acquisition (SCADA) system in the amount of \$84,370 and authorizing the City Manager to enter into the same.

Committee Recommendation: The Public Works Committee voted unanimously 4-0 to recommend to City Council approval of an Ordinance authorizing the execution of Addendum No. 6 to an agreement by and between the City of Lee's Summit, Missouri and HDR Engineering, Inc. for the design of a new control system for the utilities Supervisory Control and Data Acquisition (SCADA) system in the amount of \$84,370 and authorizing the City Manager to enter into the same.