

DATE: October 11, 2007

TO: Mayor and City Council Members

FROM: Utilities Department

SUBJECT: **RESOLUTION NO. 8159 - A RESOLUTION AUTHORIZING THE CITY MANAGER TO EXECUTE AN AGREEMENT WITH TESCO CONTROLS, INC. FOR THE LA COLINA DEL LAGO WATER BOOSTER PUMP STATION SYSTEM UPGRADES**

BACKGROUND / ISSUE

The Utilities Department uses a supervisory control and data acquisition (SCADA) system to monitor, control, and communicate with the remote components of the water distribution system. This system helps ensure a reliable pumping and delivery process. The SCADA system transmits data from remote locations to receivers located at the Water Treatment Plant. Using SCADA allows operators to efficiently monitor, communicate with and control the operations of the water distribution system, as well as collect data from each key component of the water distribution system.

Additionally, the data collection monitoring and alarm components within the SCADA system allow the City to comply with regulatory requirements of the Department of Health Services (DHS) for drinking water. Also, using the SCADA system to remotely monitor and operate the water distribution facilities and pump stations increases staff efficiency and reduces operational costs.

During construction of the La Colina del Lago Booster Pump Station, the Utilities Department identified changes necessary for the pump station to meet new City pump station SCADA standards. These changes would have required modifications to the approved pump station project as submitted by the developer of the project, Bernau Development Group. These changes consisted of modifications to the pump starters and SCADA communications system. To avoid delays to the project, Utilities Department staff summarized these requirements for the modifications to the approved design and worked on an agreement with the Bernau Development Group to help fund a portion of the costs of these upgrades, while construction proceeded.

Approval of this item will allow the Utilities Department to upgrade the La Colina Del Lago pump station to current City SCADA standards by providing the necessary services for integrating the existing system at the pump station with the upgraded SCADA system at the Water Treatment Plant.

POLICY / RULE

In accordance with Chapter 2.36 of the Folsom Municipal Code, agreements costing \$41,750 or greater shall be approved by the City Council.

ANALYSIS

To bring the La Colina del Lago Booster Pump Station up to current City standards, the Utilities Department identified maintenance and upgrade requirements. These requirements will help maintain reliable service to the City's customers that rely on this pump station and will maximize efficiency in the operation of the La Colina del Lago Booster Pump Station.

The upgrade of the La Colina del Lago Booster Pump Station includes the following:

- Define SCADA configuration and programming requirements and provide system engineering services to facilitate system integration.
- Provide programming and configuration of software, control panels, computers and radio communication elements.
- Provide necessary SCADA integration and control interface hardware and software upgrades.
- Install, calibrate, and troubleshoot new instrumentation, controls, and other electrical equipment for each of the new and upgraded component.
- Replace two existing pump starters with variable frequency drive starters operating in a lead-lag rotation to maintain a pressure set point.
- Provide factory witness testing, field startup and testing, and training services for water treatment plant and water quality staff on SCADA elements.

Outside services are required in order to provide the necessary expertise for SCADA integration. The most efficient and cost effective option is to hire Tesco Controls, Inc. to perform the work. The City selected Tesco Controls, Inc. from proposals previously solicited by the City for the SCADA system development and maintenance services for a prior phase of the water treatment plant expansion. Proposals identified the team members and their qualifications for performing these services. Based on the quality of work performed during the water treatment plant expansion, the knowledge of the City's SCADA system, and the responsiveness to the City's requests, Tesco Controls, Inc. provides the necessary services to complete the work. To maintain consistent integration with the Utilities Department City-wide SCADA system, the City proposes to utilize Tesco Controls, Inc. to perform the SCADA integration and provide equipment for the La Colina del Lago Booster Pump Station.

FINANCIAL IMPACT

Tesco Controls, Inc. proposes to perform the required consulting services for the Water Treatment Plant Pump Station SCADA Integration Project for an amount not to exceed \$85,000. Sufficient funds are available in the Water Operating Fund (Fund 520) to cover this expense.

As part of an agreement from the Bernau Development Group, the City will receive \$15,000 to help fund the costs of the upgrades, which is included in the project budget.

ENVIRONMENTAL REVIEW

This project is an upgrade project of existing infrastructure; and therefore, is categorically exempt from environmental review under the California Environmental Quality Act as noted in Title 14 - California Code of Regulations, Chapter 3 - Guidelines for Implementation of the California Environmental Quality Act, Article 19 - Categorical Exemptions, Section 15302 - Replacement or Reconstruction.

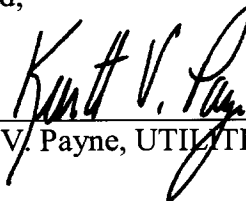
ATTACHMENT

Resolution No. 8159 - A Resolution Authorizing the City Manager to Execute an Agreement with Tesco Controls, Inc. for the La Colina del Lago Booster Pump Station System Upgrades

RECOMMENDATION/ CITY COUNCIL ACTION

The Utilities Department recommends that the City Council pass and adopt Resolution No. 8159 - A Resolution Authorizing the City Manager to Execute an Agreement with Tesco Controls, Inc. for the La Colina del Lago Booster Pump Station System Upgrades.

Submitted,



Kenneth V. Payne, UTILITIES DIRECTOR

RESOLUTION NO. 8159

A RESOLUTION AUTHORIZING THE CITY MANAGER TO EXECUTE AN AGREEMENT WITH TESCO CONTROLS, INC. FOR THE LA COLINA DEL LAGO WATER BOOSTER PUMP STATION SYSTEM UPGRADES

WHEREAS, the Utilities Department currently utilizes supervisory control and data acquisition (SCADA) to control and communicate with remote water facilities; and

WHEREAS, the City's supervisory control and data acquisition (SCADA) system assists in efficiently meeting the specific requirements of the Department of Health Services (DHS) compliance requirements; and

WHEREAS, the City's La Colina del Lago booster pump station needs to be upgraded and integrated into the existing SCADA system; and

WHEREAS, Tesco Controls Inc., by reason of their past experience and abilities for performing these types of services, is qualified to perform the required consulting services; and

WHEREAS, sufficient funds are available in the Water Operating Fund (Fund 520); and

WHEREAS, the City of Folsom will receive \$15,000 from the Bernau Development Group to help fund the costs of these upgrades; and

WHEREAS, the agreement will be in a form acceptable to the City Attorney:

NOW, THEREFORE, BE IT RESOLVED that the City Council of the City of Folsom authorizes the City Manager to Execute an Agreement with Tesco Controls, Inc. for the La Colina del Lago Booster Pump Station System Upgrades in an amount not to exceed \$85,000.

PASSED AND ADOPTED on this 23rd day of October 2007, by the following roll-call vote:

AYES: Council Member(s)

NOES: Council Member(s)

ABSENT: Council Member(s)

ABSTAIN: Council Member(s)

Andrew J. Morin, MAYOR

ATTEST:

Christa Schmidt, CITY CLERK

Resolution No.

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