



**CITY OF LODI  
COUNCIL COMMUNICATION**

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**AGENDA TITLE:** Report on the City's Supervisory Control And Data Acquisition (SCADA) system located at Electric Utility that monitors and controls the electric, water, wastewater and storm systems and affirmation of the City Manager's actions regarding necessary emergency repairs (\$8,000) (EUD)

**MEETING DATE:** February 16, 2005

**PREPARED BY:** Electric Utility Director

**RECOMMENDED ACTION:** That the City Council affirm the City Manager's actions regarding necessary emergency repairs to the Electric Utility's SCADA system

**BACKGROUND INFORMATION:** The Electric Utility Department has received approval from the City Manager for an emergency funding request in the amount up to \$8,000. The funding was utilized to repair the Department's "SCADA" system. This system monitors and controls the flow of electricity on Lodi's distribution power lines, as well as the city's water system. The SCADA system is essentially the "eyes, ears and hands" of the distribution system, and is crucial for maintaining service reliability and restoring service if an outage occurs for the residents and businesses of Lodi.

During the installation of the SCADA system software, a series of challenges were identified. The utility's first course of action was to notify the system vendor, who attempted to rectify the challenges remotely. Unfortunately, remote attempts to rectify the problems were unsuccessful, and both Electric Utility staff and the SCADA system vendor recommended a new course of action.

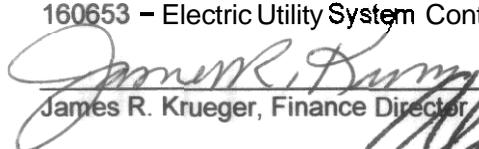
This action involved the re-installation and re-configuration of the both the SCADA system hardware and software. It should be noted that there was no premium or additional cost for this immediate repair. The decision to move swiftly ahead with the repair work was deemed the most prudent decision to maintain system integrity.

By addressing the needed "fixes" to the SCADA system now, the utility could avoid a series of potentially time-consuming and costly problems including, but not limited to, extended power outage times, a backup of the storm and waste water systems, and a loss of water pressure through out the city.

The troubleshooting, repair and testing of the system have been completed, and the city's SCADA system is operating as designed and intended.

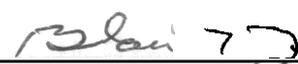
**FUNDING:** 160653 – Electric Utility System Control and Dispatch Budget

**Funding Approval:**

  
James R. Krueger, Finance Director

  
Alan N. Vallow  
Electric Utility Director

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ANV/KR/1st

**APPROVED:**   
Blair King, City Manager