



# City Council Report

**Date:** July 1, 2014  
**To:** City Council  
**Through:** Kari Kent, Deputy City Manager  
**From:** Beth Huning, City Engineer  
Rob Kidder, Assistant City Engineer  
**Subject:** Gas SCADA System Improvements  
City Project No. C01886  
Council Districts 2, 3, 4 and 5

## Strategic Initiatives



## Purpose and Recommendation

The purpose of this report is to provide information to the Council on the results of the bids received for the Gas SCADA (Supervisory Control and Data Acquisition) System Improvements (See Attachment “A” for project locations).

It is recommended that the Council award this project to the lowest responsible bidder, Hydro Controls for a total award of \$305,644.67.

## Background

The City’s natural gas utility is required to monitor system pressures at the outlets of all regulator stations as part of the operations and federal code requirements. The pressure monitoring equipment is commonly referred to as SCADA (Supervisory Control and Data Acquisition). In the past, the City has tried to install SCADA equipment at new regulator stations as the stations were constructed. It was subsequently discovered that there was a cost savings if the SCADA equipment could be added at a later date as part of a larger SCADA project that installed the SCADA equipment at multiple locations. The pressures at the non-SCADA regulator stations could be monitored with temporary equipment until new SCADA equipment could be installed.

## Discussion

The Gas SCADA Systems as designed use a pole-mounted, solar-powered controller with an antenna to radio information to the Utility control room located at the Energy Resources Department. The poles will be mounted near the existing regulator stations and this configuration is consistent with other City SCADA installations.

**Alternatives**

One alternative would be to use utility power to run the instrumentation, and existing telephone lines to provide communication. This would require payment of monthly service fees for each site and the installed cost would be only marginally lower for installation. It was determined that the City would have a lower total operating cost with the system as designed.

Construction of a monitoring system for the City-owned Gas Utility is a regulatory requirement.

**Fiscal Impact**

The recommended total award of this project is \$305,644.67, which consists of a low bid of \$277,858.79 plus an additional \$27,785.88 (10% allowance for change orders). This project is funded from the 2010 authorized gas bond fund.

**Coordinated With**

The Energy Resources Department concurs with this recommendation.

CITY OF MESA  
MESA, ARIZONA

GAS SCADA SYSTEM IMPROVEMENTS – PHASE 2

**PROJECT NO. C01886**

Tabulation of Bids Received, Thursday, May 29, 2014 at 1:00 P.M.

<b>ENGINEER'S ESTIMATE</b>	<b>\$496,850.00</b>
1. Hydro Controls	\$277,858.79
2. Alliance Service and Control	\$431,482.00