

Energy Management Supervisory Control and Data Acquisition System

City Council

March 7, 2017

Topics for Discussion

- What is a Supervisory Control and Data Acquisition (SCADA) system
- Why we need it
- Vendor Information
- Next Steps
- Staff Recommendation

What is SCADA

- Used to monitor and control a plant or equipment in industries such as energy, water and waste control, and transportation.
- Have been used since 1960.
- A computer system that gathers data in real-time from remote locations in order to control equipment and conditions.

Why We Need It

- **Required for the operation of the Denton Energy Center (DEC).**
 - The requested amount is already included in the total DEC budget.
- **Gathers and sends information and plant status to ERCOT.**
- **Necessary for the Energy Management Organization (EMO) to participate in the ERCOT market.**
- **Will help the EMO make fiscal decisions by using integrated forecasting software and in-depth reporting.**

Vendor Information

- **Open Systems International, Inc. (OSI)**
 - Corporate Headquarters in Medina, Minnesota
- **Global supplier of SCADA systems.**
- **Widely used by utilities for electric, transport and water.**
- **DME has used OSI since 2008.**
- **OSI is a Sole Source provider. (Exhibits 2 & 3 included in your back-up)**
- **The cost of equipment, professional services, and testing is included in total amount requested.**

Next Steps

- Council consider approval on March 7, 2017
- Upon Council approval, award contract and begin build-out of Denton Energy Center SCADA system
- This project will be completed and operational by May 2018.

Staff Recommendation

- Consider recommendation of approval of a contract to Open Systems International (OSI) in the amount not to exceed \$446,331.80 for the implementation of the OSI Supervisory Control and Data Acquisition (SCADA) hardware and software system.

Questions?

