

ELECTRIC SCADA UPGRADE PROJECT

Public Utilities Department

City Council
October 11, 2022

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BACKGROUND

Electric Supervisory Control and Data Acquisition (Electric SCADA)

1. **Key operational tool** for safe and reliable operation of RPU's electric grid
2. **Frequent updates necessary** to maintain system performance, cyber security, and functionality
3. **Requires continuous software support** and patch management services
 - a. System patches monthly and system upgrade every 4-5 years
4. **Current system vendor is Open Systems International, Inc. (OSI)**
5. **Last upgrade was in 2013 - now overdue**



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DISCUSSION

The Electric SCADA upgrade project consists of two key actions:

1. **Upgrade the OSI Monarch software and hardware** to the latest release and technology
2. **Service agreement with OSI** to provide Software Support and Patch Management Services for 5-years



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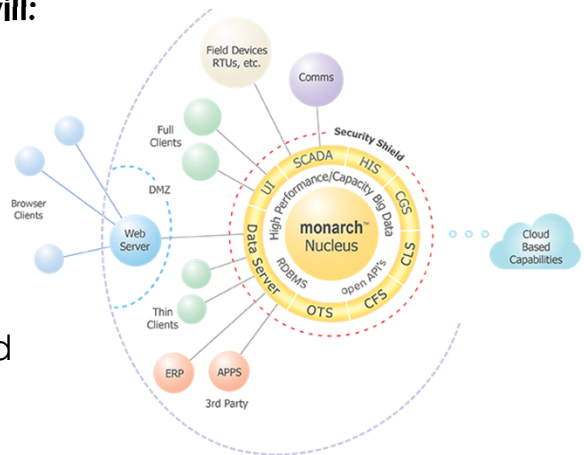
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DISCUSSION

The Electric SCADA upgrade project will:

1. **Bring the system up to date** to the latest release of the OSI Monarch software, and update associated hardware
2. **Maintain existing and expand functionality** by taking advantage of the enhancements and standard features available with the new release



OSI Monarch SCADA System Example

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PROCUREMENT

Competitive bidding process was not required for the project pursuant to exceptions provided in Purchasing Resolution 23812

1. Professional Services Agreement with OSI (Purchasing Resolution Section 702(u))

- a. Project is upgrading existing technology and license(s)
- b. OSI has been in continuous use since being selected through a competitive bidding process
- c. The Purchasing manager is satisfied that the best price, terms and conditions have been negotiated



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AGREEMENT WITH OSI

Professional Consulting Services Agreement includes:

1. Software and hardware upgrade
 - a. A complete update of all software and hardware components associated with Electric SCADA
 - b. Services to support the implementation, including project implementation, testing, and training
2. Software Support and Patch Management services for five years
 - a. Services paid for annually, begins when the current support agreement expires on November 15, 2022
 - b. Includes 24x7 technical support, help desk, unlimited support tickets, webinar training, license assurance, patch management
 - c. Includes a system upgrade in year four



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FISCAL IMPACT

Item	Cost
Professional Consulting Services Agreement	
OSI Monarch SCADA Upgrade	\$1,169,510
Tax on Tangible Items	\$45,000
5-Year Support and Patch Management	\$951,606
Total	\$2,166,116



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STRATEGIC PLAN ALIGNMENT



Priority 6 - Infrastructure, Mobility & Connectivity

Goal 6.2 – Maintain, protect, and improve assets and infrastructure within the City's built environment to ensure and enhance reliability, resiliency, sustainability, and facilitate connectivity.

Cross-Cutting Threads



Community Trust



Fiscal Responsibility



Sustainability & Resiliency



Equity



Innovation



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RECOMMENDATIONS

That the City Council:

1. Approve the Professional Consultant Services Agreement for the upgrade of existing Open System International Based Electric Supervisory Control and Data Acquisition System and Energy Management Systems with Open Systems International, Inc., of Medina, Minneapolis, for a five-year term through November 30, 2027, in the amount of \$2,121,116, with an additional \$45,000 for tangible taxable items; and
2. Authorize the City Manager, or designee, to execute the Agreement, including making minor, non-substantive changes, and to sign all documents and instruments necessary to complete the transactions.



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