



ELECTRIC SCADA UPGRADE PROJECT

Riverside Public Utilities

Land Use, Sustainability and Resilience Committee
September 12, 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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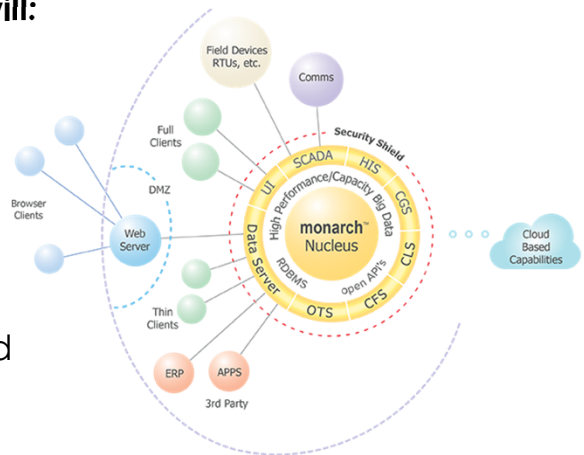
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DISCUSSION

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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AGREEMENTS 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

Envision Riverside 2025 Strategic Plan Priority



No. 6. Infrastructure, Mobility & Connectivity

Cross-Cutting Threads



Community Trust



Fiscal Responsibility



Sustainability &
Resiliency



Equity



Innovation



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RECOMMENDATIONS

1. Recommend that the City Council approve Professional Consultant Services Agreement with OSI for the upgrade of existing OSI Based Electric SCADA and EMS Systems, in the amount of \$2,121,116, with an additional \$45,000 for tangible taxable items; and
2. Recommend that the City Council authorize the City Manager, or designee, to execute the Agreements, including making minor, non-substantive changes, and to sign all documents and instruments necessary to complete the transactions.



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