



RIVERSIDE PUBLIC UTILITIES

Board Memorandum

BOARD OF PUBLIC UTILITIES

DATE: SEPTEMBER 27, 2021

SUBJECT: SOFTWARE AND TECHNICAL SUPPORT SERVICES FOR THE PLANT CONTROL SYSTEMS AT RIVERSIDE ENERGY RESOURCE CENTER AND SPRINGS GENERATING STATION FROM E&M ELECTRIC & MACHINERY, INC., DBA WONDERWARE OF HEALDSBURG, CALIFORNIA, FOR A TWO-YEAR TERM IN THE AMOUNT OF \$63,090

ISSUES:

Consider recommending that the City Council approve the expenditure for software and technical support services for the plant control systems at Riverside Energy Resource Center and Springs Generating Station from E&M Electric & Machinery, Inc., dba Wonderware of Healdsburg, California, for a two-year term in the amount of \$63,090.

RECOMMENDATIONS:

That the Board of Public Utilities recommend that the City Council:

1. Authorize the expenditure for software and technical support services from E&M Electric & Machinery Inc., dba Wonderware of Healdsburg, California for the plant control systems at Riverside Energy Resource Center and Springs Generating Station, for a two-year in the amount of \$63,090;
2. Approve the End User License Agreement with Aveva Software, LLC for Wonderware Software; and
3. Authorize the City Manager, or designee, to execute the end user license agreement with Aveva Software, LLC including minor non-substantive changes.

BACKGROUND:

The City of Riverside owns and operates the Riverside Energy Resource Center (RERC), and the Springs Generating Station (Springs). Both plants are environmentally regulated to operate at the lowest possible emissions for their engine classes. Collectively, they produce 232 megawatts of power and only operate when there is a critical need to meet electricity demands.

Operations at each facility are conducted through each plant's distributed control systems allowing technicians to interface with numerous pieces of equipment and wide variety of components. The Wonderware software runs on the distributed control systems and provides data that is used in

the supervisory control and data acquisition system (SCADA) as well as RPU's PI system dashboards. Wonderware was installed during initial construction at RERC and Springs and customized for each generation facility. The software, which is considered one of the best control software systems for this use, has been continuously used and updated since each facility was commissioned: Springs in 2002; RERC Units 1 & 2 in 2006; and RERC Units 3 & 4 in 2011.

Continuing the technical support for the Wonderware software is essential for maintaining system upgrades, process changes and SCADA systems.

DISCUSSION:

E&M Electric & Machinery, Inc. dba Wonderware (E&M) is the vendor for the Wonderware software used at RERC and Springs. E&M provides technical support and upgrades the software when required. The software is owned by Aveva Software, LLC.

The Public Works Department Wastewater Division also uses Wonderware software for the SCADA systems and plant operations at the City's water quality control plant. To obtain better pricing, staff combined the software technical support and licensing for both departments into one agreement. This combined effort provided a \$12,000 reduction to the cost. If the Board of Public Utilities recommends the approval agreement with RERC and Springs, Public Works will seek approval for the overall agreement from the City Council.

Additionally, this procurement is not required to go through a competitive procurement. Under Section 702(q) of Purchasing Resolution No. 23256, Exceptions, Competitive Procurement through the Informal Procurement and Formal Procurement process shall not be required when the Procurement is for the annual maintenance, license(s), support, or similar need for current technology systems, including hardware, and the items procured are from the owner/developer of the software/hardware or from a sole source provider, and the Manager is satisfied that the best price, terms and conditions have been negotiated.

The Purchasing Manager concurs that the recommended actions comply with Purchasing Resolution No. 23256, Section 702(/q).

STRATEGIC PLAN ALIGNMENT:

This item contributes to the following strategic priorities and goals from the Envision Riverside 2025 Strategic Plan:

Strategic Priority 4, Environmental Stewardship

- Goal 4.3. Implement local and support regional proactive policies and inclusive decision-making processes to deliver environmental justice and ensure that all residents breathe healthy and clean air with the goal of having zero days of unhealthy air quality per the South Coast Air Quality District's Air Quality Index (AQI).

Strategic Priority 5, High Performing Government

- Goal 5.4. Achieve and maintain financial health by addressing gaps between revenues and expenditures and aligning resources with strategic priorities to yield the greatest impact.

Strategic 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.
- Goal 6.3. Identify and pursue new and unique funding opportunities to develop, operate, maintain, and renew infrastructure and programs that meet the community's needs.

The item aligns with EACH of the five cross-cutting threads as follows:

1. **Community Trust** – Ensuring that Riverside's power plants can safely and effectively operate and provide electricity to the entire City and its communities serves the greater public good.
2. **Equity** – This item ensures that the RERC and Springs power plants can safely and effectively operate and provide reliable electricity benefitting the entire City.
3. **Fiscal Responsibility** – Maintaining the operating effectiveness of the software at the power plants avoids potential costly upgrades later; ensures that the power plants remain in operations; and avoids potential fines for non-compliance with various regulations. Additionally, multiple departments partnering under one agreement has resulted in a cost savings which demonstrates prudent stewardship of public funds and responsible management of the City's financial resources while providing quality public services to all.
4. **Innovation** – This item provides the maintenance of critical system software ensuring the operation of the RERC and Springs power plants such that the plants can continuously effectively adapt to changing regulations, equipment and processes.
5. **Sustainability & Resiliency** – The Wonderware software ensures that the power plants are able to operate in the most effective way possible and are able to maintain the lowest possible emissions for their engine classes.

FISCAL IMPACT:

The total fiscal impact is \$63,090. Sufficient funds are available in Public Utilities RERC Maintenance Generating Account No. 6120130-424131 and Springs Maintenance Generating Plant Account No 6120120-424131.

Prepared by: Daniel E. Garcia, Utilities Deputy General Manager/Power Resources
Approved by: Todd M. Corbin, Utilities General Manager
Approved by: Al Zelinka, FAICP, City Manager
Approved as to form: Phaedra A. Norton, City Attorney

Concurs with: Gilbert Hernandez, Interim Public Works Director

Certifies availability
of funds: Edward Enriquez, Chief Financial Officer/City Treasurer

Attachments:

1. End User License Agreement with Aveva for Wonderware, California Software
2. Presentation