



POWER PLANT DISTRIBUTED CONTROL SYSTEMS SUPPORT

Riverside Public Utilities

City Council
March 25, 2025

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1

BACKGROUND

1. Riverside Energy Resource Center (RERC) and Springs
 - a. Provides a combined total of 236 megawatts of electricity
 - b. Operate during the most critical time
 - c. Remote capable facilities
 - d. Support summer peak demands
2. Distributed Control Systems (DCS)
 - a. Centralized computer control system at RERC and Springs
 - b. Integrates numerous systems for plant operation
 - c. Custom designed and programmed to specific operations
 - d. Vital for compliance and maintaining high reliability
 - e. Essential for remote operations



2

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2

DISCUSSION

1. Wunderlich-Malec Engineering, Inc. (Wunderlich-Malec)
 - a. Designed and commissioned the original DCS at RERC and Springs
 - b. Technical expertise for the complex and customized control systems
 - c. Support is essential to maintain reliability, environmental compliance, and safe operations

2. DCS System
 - a. Customized to control the specific operations at RERC and Springs
 - b. Wunderlich-Malec is the only vendor that readily meets Riverside's demands for DCS System maintenance and programming
 - c. Agreement can be extended as a Change Order to the original Purchase Order (under Purchasing Resolution 24101, Section 1104)



3

3

DISCUSSION

1. DCS Support Agreement
 - a. Original agreement was executed in 2017 through single source procurement
 - b. Current agreement expires on June 30, 2025
 - c. June 2022 single source procurement was approved
 - d. Fourth amendment to extend agreement three additional years through 2028, without any increase to pricing

Agreement	Fiscal Years	Terms of Agreement	Annual Amount	Total Amount
Original	FY 2017-18	1 Year	\$45,000	\$45,000
First Amendment	FY 2018-19	1 Year	\$45,000	\$45,000
Second Amendment	FY 2019-22	3 Years	\$60,000	\$180,000
Third Amendment	FY 2022-25	3 Years	\$60,000	\$180,000
Fourth Amendment	FY 2025-28	3 Years	\$60,000	\$180,000
			Total Contract Amount	\$630,000



4

4

STRATEGIC PLAN ALIGNMENT



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.

Cross-Cutting Threads



Community Trust



Equity



Fiscal Responsibility



Innovation



Sustainability & Resiliency



5

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5

RECOMMENDATIONS

That the City Council:

1. Approve the fourth amendment to the Professional Consultant Services Agreement with Wunderlich-Malec Engineering, Inc. of Gilbert, Arizona for power plant control system engineering and consulting services at the Riverside Energy Resource Center and Springs Power Plant for a three-year term ending June 30, 2028, in the amount of \$180,000, for a total agreement amount of \$630,000; and
2. Authorize the City Manager, or designee, to execute the fourth amendment to the Professional Consultant Services Agreement with Wunderlich-Malec Engineering, Inc., including the ability to make non-substantive changes.



6

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6