



MAINTENANCE AND SUPPORT AGREEMENT WITH TANTALUS SYSTEMS, INC. FOR THE ELECTRIC AMI HEAD-END SYSTEM

Riverside Public Utilities

Board of Public Utilities
May 9, 2022

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BACKGROUND

1. On January 28, 2019, the Board of Public Utilities approved the Electric AMI and Meter Data Management System (MDMS), including a Professional Services Agreement with Tantalus Systems, Inc. for a cloud-based Electric Advanced Meter Infrastructure (AMI) Head-End System.
 - a) Tantalus was selected through Request for Proposal No. 1837, consistent with the City purchasing process.
 - b) Original contract include initial maintenance and support fees through December 31, 2021
2. March 12, 2019 - City Council - Project Implementation
3. December 17, 2021 - City Council - Phase 2 update & staffing budget amendment
4. June 14, 2021 - City Council Land Use Committee update – Phase 3 project update
5. November 9, 2021 - City Council update - Phase 3 project update



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ADVANCED METERING INFRASTRUCTURE

AMI is a system of:

1. **Advanced meters**
2. **Communications networks**
3. **Data management**

It allows **two-way communication** between a customer's meter and the utility. The system transmits near **real-time information** about usage.



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METER DATA MANAGEMENT SYSTEM

An MDMS **validates**, **estimates** and **edits** the meter data to ensure the data is **accurately transferred** to the Customer Information System (CIS) for billing.



MDMS



**Customer Information
System (CIS)**



Billing



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OVERALL AMI BENEFITS



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RIVERSIDE'S PROGRAM APPROACH

- 1. Primary Goal:** maximize investment in existing ERT meters.
- 2. ERT Overlay:** install fixed network utilizing new AMI meters and collection devices to collect data from the existing meters, while providing new AMI functionality.
- 3. Phased Approach:** Alpha and Beta Proof-of-Concepts, before rolling out Full Implementation.
- 4. Best Practices:** utilize lessons learned from other utilities that have already implemented AMI.



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MAINTENANCE AND SUPPORT AGREEMENT

1. A Maintenance and Support Agreement is necessary to continue to maintain the licensing and technical support that Tantalus provides for the system.
2. Maintenance and Support Agreement with Tantalus
 - a. Annual renewal;
 - b. Initial licensing fee of \$135,046;
 - c. Future licensing fees guaranteed not to increase by more than 3.5%;
 - d. Future funding will be included as part of the biennial budget process for the respective budget years and with Board approval requested in the annual purchase order report.



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STRATEGIC PLAN ALIGNMENT

Envision Riverside 2025 Strategic Plan Priorities



No. 2 Community Well-Being



No. 4. Environmental Stewardship



No. 6. Infrastructure, Mobility & Connectivity

Cross-Cutting Threads



Community Trust



Fiscal Responsibility



Sustainability & Resiliency



Equity



Innovation

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RECOMMENDATIONS

That the Board of Public Utilities:

1. Approve the Maintenance and Support Agreement with Tantalus Systems, Inc., a Delaware Corporation, for continued use of the Electric Advanced Meter Infrastructure Head-End System with annual automatic renewals, initial cost for fiscal year 2021/22 is \$135,046; 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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