



INCREASE OF AUTHORIZED AMOUNT FOR AS NEEDED REPAIRS ON RERC INLET AIR CHILLERS FOR FY 24/25

Riverside Public Utilities

Board of Public Utilities
November 18, 2024

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BACKGROUND

1. Riverside Energy Resource Center (RERC)
 - a. Four General Electric (GE) LM6000 gas turbine engines that generate a combined output of 195 megawatts (MW)
 - b. Critical to meeting load demands during peak periods
2. Air Inlet Chiller Equipment
 - a. Cools ambient air entering each gas turbine to maintain capacity
 - b. RERC has two 3,500-ton air inlet chillers – Trane U.S. Inc. (Trane) is the OEM
 - c. First chiller system was installed in 2004 for Units 1 and 2
 - d. Second chiller system was installed in 2008 for Units 3 and 4
 - e. Without chillers, the capacity can be reduced from 195MW to 157MW

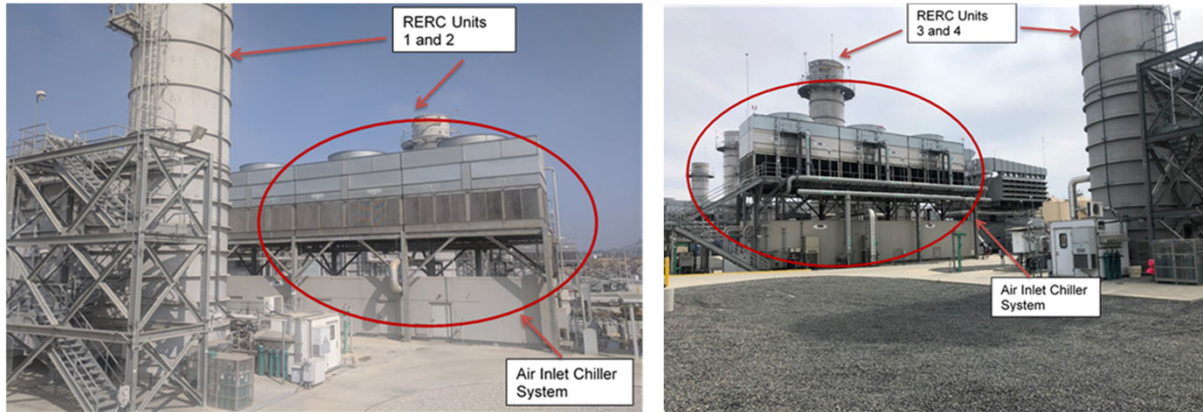


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BACKGROUND



Air inlet chillers are large, complex pieces of equipment



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BACKGROUND

1. Maintenance Program with Trane
 - a. On July 10, 2023, Board approved a comprehensive maintenance program which included an authorized amount of \$50k/year for as-needed repairs
2. As-Needed Repairs
 - a. Only used for minor maintenance
 - b. Requires approval prior to work being undertaken
 - c. Not guaranteed payment to vendor
 - d. Unused funds remain in Generation budget



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DISCUSSION

1. Increase Authorized Amount for As-Needed Repairs for Fiscal Year 24-25
 - a. Recent inspections revealed additional maintenance needs: vibration analysis on both chillers (\$2,630), a motor bearing repair on RERC units 3 and 4 (\$32,216), and an electrical fault repair on RERC units 1 and 2 (\$10,903)
 - b. To address any unanticipated repairs for the duration of this Fiscal Year, staff recommends replenishing the as-needed repairs allowance by \$45,749

Fiscal Year	Preventative Maintenance	As Needed Repairs	Expenditures	Increase Amount	Total
FY 24/25	\$26,504.92	\$50,000	(\$45,749)	\$45,749	\$122,254



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STRATEGIC PLAN ALIGNMENT

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 breath 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.

Cross-Cutting Threads



Community Trust



Equity



Fiscal Responsibility



Innovation



Sustainability & Resiliency



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RECOMMENDATIONS

That the Board of Public Utilities approve an increase of the authorized amount for as needed repairs on the air inlet chillers at Riverside Energy Resource Center in the amount of \$45,749 on Purchase Order No. 250243 with Trane U.S. Inc. for the 24/25 fiscal year, for a revised total of \$122,254.

