

Riverside Public Utilities  
 Closed Capital Work Order Summary Report - Electric Fund  
 6/30/22

Project / Subproject or WO	Project Description	Start Date	End Date	Board Approved Estimate	Final Project Cost	Variance	Variance %
<b>CLOSED Capital Work Orders with Budget or Actual Expenditures &gt; \$200,000</b>							
<b>UNDERGROUND</b>							
1903658	Electrical Engineering Design Services for Pole/Vault Placement and Reconductor Project	8/14/2018	3/22/2022	\$435,000	\$356,648	\$78,352	18%
<p>1) Note on Final Project Cost:            Project was completed under the board approved estimate due to less engineering work than originally anticipated.</p> <p>2) Impact to Customer Service:            The design services provided by the contractor will improve the safety and reliability of our infrastructure within the area for our customers.</p> <p>3) Impact to System Reliability:            The pole replacements will provide up to date standardized structures to comply with GO95. The line reconductoring will provide stability and reliability to our distribution system. Overall the design will help bring up old infrastructures up to date with new standards.</p>							
<b>SUBSTATION</b>							
1603079	Springs & Orangecrest Equipment Replacement Project	2/19/2016	5/24/2022	\$1,700,000	\$1,625,414	\$74,586	4%
<p>1) Note on Final Project Cost:            Project completed below budget.</p> <p>2) Impact to Customer Service:            The project replaces sub-transmission circuit breakers that exceeded their design life. The project improves safety and reliability of services to the customers.</p> <p>3) Impact to System Reliability:            The project targeted replaced aged oil and SF6 circuit breakers which improves reliability of the electrical system.</p>							
1808341	Substation Utility Storage Facility	6/11/2018	3/15/2022	\$407,385	\$244,714	\$162,671	40%
<p>1) Note on Final Project Cost:            The project was completed below the estimated cost due to overestimating the design effort to complete designing a storage facility and site improvement due to lack of experience with designing this kind of facilities.</p> <p>2) Impact to Customer Service:            This project will allow RPU to respond to emergencies more efficiently, translating into less outage time for our customers. □</p> <p>3) Impact to System Reliability:            This project if constructed, will improve the response time to emergencies by building a storage facility that can house spare equipment and devices.</p>							
1822052	Harvey Lynn Substation Site Expansion	10/22/2018	3/17/2022	\$2,100,000	\$2,141,978	-\$41,978	-2%
<p>1) Note on Final Project Cost:</p>							

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**CLOSED Capital Work Orders with Budget or Actual Expenditures > \$200,000**

Project expenditure was over the budget by 2% due to adopting latest design practices during construction, changes in field conditions, and underestimating certain construction tasks.

2) Impact to Customer Service:  
 New expanded area will allow installation of new equipment in this station without customer interruption. Project also enhanced neighborhood aesthetics with the new decorative wall and landscape.

3) Impact to System Reliability:  
 System reliability will improve due to new area resulting from expansion project. Upcoming projects include installation of modernized equipment to provide resilience and protection to the power system in the City of Riverside.

2021755	Riverside Substation 15kV Relay Replacement Project	2/18/2020	3/17/2022	\$900,000	\$898,332	\$1,668	0%
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1) Note on Final Project Cost:  
 Project completed on budget.

2) Impact to Customer Service:  
 The project is part of the relay replacement program that targets replacing electromechanical relays with digital relays which improves the reliability for our customers.

3) Impact to System Reliability:  
 The relay replacement project improves the protection system which is critical to maintaining the stability and reliability of the electric power grid.

2120986	Multiple Substations 15KV Capital Circuit Breaker Replacement Project	4/13/2021	3/15/2022	\$490,000	\$475,581	\$14,419	3%
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1) Note on Final Project Cost:  
 The project was completed within estimated cost (97%)

2) Impact to Customer Service:  
 Distribution Breaker replacement improves the continuity of electric service to our customers.

3) Impact to System Reliability:  
 Replacing aging breaker replacement, an integral part of the protection system improves personnel safety and reduces damages to the electric equipment, which ultimately enhances the system's reliability.

2103948	Clearwater Gas Turbine Engine	10/1/2020	3/31/2022	\$1,162,000	\$1,160,152	\$1,848	0%
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1) Note on Final Project Cost:  
 Project completed within budget.

2) Impact to Customer Service:  
 Clearwater turbine repairs restored the power plant to normal operations and electricity production.

3) Impact to System Reliability:  
 Clearwater turbine repairs restored the power plant to normal operations and electricity production.

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<b>Total Electric Fund - Closed Work Orders</b>				<u>\$ 7,194,385</u>	<u>\$ 6,902,819</u>	<u>\$ 291,566</u>	