

GENTERATION SECTION PROJECT OVERVIEW FOR 2025

Riverside Public Utilities

Board of Public Utilities January 13, 2025

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DISCUSSION

- 1. Routine Maintenance and Support Services
 - a. Essential for normal day-to-day operations
 - b. Necessary to prepare for peak summer performance
 - c. Services for specialized equipment
 - d. Multi-year agreements
 - Ongoing maintenance activities
 - Better pricing
- 2. More extensive maintenance projects
 - a. Critical to meet retirement timeline
 - b. One Capital Improvement Project: CIP-Funded

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DISCUSSION – ROUTINE MAINTENANCE

Project	Description	Annual Cost	Facility
Turbine Instrument Calibrations	Vital turbine instrument calibrationsPerformed by OEM or ASP annually	\$50,000	RERC CW
Turbine Borescope Inspections	Gas turbine condition and serviceabilityPerformed by OEM or ASP annually	\$50,000	RERC CW
Gas Compressor Maintenance	 Boosts gas pressures for turbine operation Preventative maintenance – 6 compressors 	\$85,000	RERC
Air Compressor Maintenance	 Pressurized air for plant equipment Prolong the service life – 6 compressors 	\$100,000	RERC Springs
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DISCUSSION – ROUTINE OPERATIONAL SUPPORT

Project	Description	Annual Cost	Facility
DAS Software Support	 Monitors, records, and validates emissions data Required for environmental compliance 	\$44,716	RERC CW Springs
Supply of Ammonia	Essential for emissions control	\$66,000	RERC CW Springs
Water Treatment Chemicals	 Corrosion and biological growth prevention Same chemicals since plant was commissioned 	\$165,000	RERC CW
BOP Controls Software Support	 Centralized control system for plant equipment Turbine controls, emissions management, SCADA 	\$60,000	RERC Springs
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DISCUSSION – EXTENSIVE MAINTENANCE

1. Clearwater Cooling Tower

- a. Essential for condensing steam in combined-cycle process and cooling plant equipment
- b. Aggressive operating conditions
- c. Significant deterioration and corrosion
- d. Maintenance required for reliable operations until retirement
- e. RFP 2412 Currently in negotiations
- f. Estimated cost is \$600,000



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DISCUSSION – EXTENSIVE MAINTENANCE

2. Clearwater Control Systems Upgrade

- a. Centralized computerized control system for plant equipment
- b. Existing system is outdated
- c. Many components are obsolete
- d. Unsustainable for the plant to reach retirement
- e. Evaluating upgrading existing system vs replace it entirely
- f. Preliminary estimate of \$2,000,000 however, final cost is still to be determined
- g. Capital Improvement Project

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Project	Tentative Board Approval
Clearwater Cooling Tower	1 st Qtr. 2025
DAS Software Support	1 st Qtr. 2025
Supply of Ammonia	1 st Qtr. 2025
Air Compressor Maintenance	1 st Qtr. 2025
Balance of Plant Controls Software Support	1 st Qtr. 2025
Multi-Year Borescope	2 nd Qtr. 2025
Gas Turbine Instrument Calibrations	2 nd Qtr. 2025
Gas Compressor Maintenance	2 nd Qtr. 2025
Clearwater Controls Upgrade (CIP)	2 nd Qtr. 2025
Water Treatment Chemicals	2 nd Qtr. 2025





