



MAINTENANCE SERVICES ON THE HEAT RECOVERY STEAM GENERATOR AT THE CLEARWATER POWER PLANT

Riverside Public Utilities

Board of Public Utilities

August 24, 2026

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1

BACKGROUND

1. Clearwater Power Plant (Clearwater)
 - a. Commissioned in 2005
 - b. Acquired by Riverside Public Utilities (RPU) in 2010
 - c. Combined cycle power plant that uses both a gas and steam turbine to produce 30 megawatts of power
2. Heat Recovery Steam Generator (HRSG)
 - a. Links the gas turbine and steam turbine
 - b. Captures heat from gas turbine exhaust and uses it to generate high-pressure steam to drive the steam turbine
 - c. Extreme operating temperatures



2

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2

BACKGROUND - HRSG

External Images of the HRSG



3



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3

BACKGROUND

1. Thermographic Inspection performed to detect insulation deficiencies with elevated temperatures
 - a. 14 areas identified with **Important** or **Serious** severity ratings
2. Deficient insulation increases the risk of equipment damage during operation, resulting in costly repairs and unplanned outages
3. Maintenance is critical to ensure safe and reliable operation

4



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4

DISCUSSION – RFP 2541

1. Request for Proposal (RFP) No. 2541 posted February 25, 2026
 - a. 52 City of Riverside vendors notified
 - b. 14 prospective bidders downloaded the RFP
2. On April 2, 2026, one proposal was received:

Vendor	Location	Proposed Cost	Evaluation Scores	Rank
JT Thorpe & Son, Inc.	La Mirada, CA	\$102,600.00	825.00	1

3. Proposal Cost Summary

Item	Proposed Cost
"Serious" Severity	\$42,300
"Important" Severity	\$34,500
Expansion Joint Replacement	\$23,300
Post-Repair Thermographic Inspection	\$2,500
Total	\$102,600



5

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5

RECOMMENDATIONS

That the Board of Public Utilities:

1. Approve the Services Agreement to Request for Proposal No. 2541 with JT Thorpe & Son, Inc. of La Mirada, California to perform maintenance services on the Heat Recovery Steam Generator at the Clearwater Power Plant in the amount of \$102,600; and
2. Authorize the City Manager, or designee, to execute the Services Agreement with JT Thorpe & Sons, Inc., including making non-substantive changes.



6

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6