

# ANNUAL GAS TURBINE INSPECTIONS AT RIVERSIDE ENERGY RESOURCE CENTER AND CLEARWATER POWER PLANT

## Riverside Public Utilities

### Board of Public Utilities

July 28, 2025

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## BACKGROUND

### Riverside Energy Resource Center (RERC)



- 198 MW
- Four GE LM6000 Gas Turbines
- Units 1 & 2 Commissioned in 2006
- Units 3 & 4 Commissioned in 2011



### Clearwater Power Plant (Clearwater)



- 28 MW
- One GE LM2500 Gas Turbine
- Commissioned in 2005
- Combined Cycle – Both a gas and Steam Turbine

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## BACKGROUND – ANNUAL INSPECTIONS

1. Annual Gas Turbine Inspections:
  - a. Performed by Original Equipment Manufacturer (OEM) or an Authorized Service Provider (ASP) during scheduled outages.
  - b. Crucial for evaluating internal condition and overall serviceability.
  - c. Reduces the risk of catastrophic engine failures and maintains reliability.
  - d. Best industry practice.
2. Only 4 authorized vendors worldwide perform specialized services on these turbines (Germany, Japan, Canada, U.S.).
3. GE Vernova Operations, LLC. (GE) is the OEM.



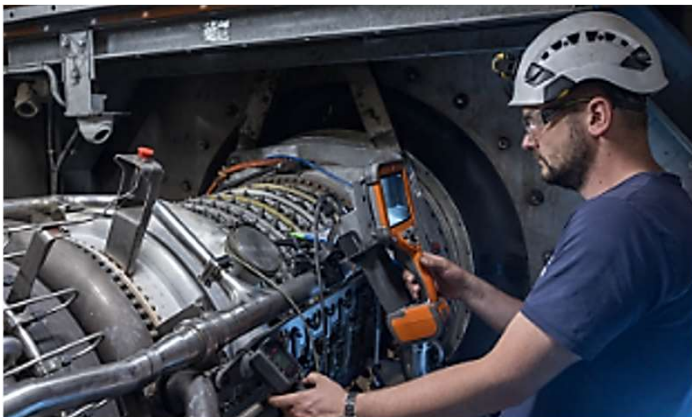
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## BACKGROUND

### Technicians Performing Borescope Inspections



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## DISCUSSION

1. If an ASP indicates the turbine is unserviceable, GE will perform a second assessment for final determination.
  - a. GE is the primary source of the turbine design specifications and engineering limits.
  - b. ASP's do not have the in-depth design and engineering capabilities.
2. Considering the age of the turbines, normal wear, such as cracking, has become more prevalent.
3. Increased likelihood that a final assessment by GE will be needed, resulting in double the cost for duplicated efforts.



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## DISCUSSION

1. Five-Year Services Agreement with GE:
  - a. Ensures cost stability and operational efficiency.
  - b. Eliminates the likelihood of duplicate assessments.
  - c. Provided the lowest competitive price during an informal bid.
  - d. Agreed to negotiate a fixed price for all annual turbine inspections at both RERC and Clearwater.

Fiscal Year	Annual Amount
2025/26	\$66,706
2026/27	\$68,710
2027/28	\$70,770
2028/29	\$72,894
2029/30	\$75,080
<b>TOTAL</b>	<b>\$354,160</b>



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## RECOMMENDATIONS

That the Board of Public Utilities:

1. Approve the Services Agreement with GE Vernova Operations, LLC. of Houston, Texas to perform gas turbine inspections at the Riverside Energy Resource Center and Clearwater Power Plant for a five-year term commencing on November 1, 2025, through June 30, 2030, in the amount of \$354,160; and
2. Authorize the City Manager, or his designee, to execute the Services Agreement with GE Vernova Operations, LLC., including making non-substantive changes.



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