



RIVERSIDE PUBLIC UTILITIES

Board Memorandum

BOARD OF PUBLIC UTILITIES

DATE: MAY 11, 2026

SUBJECT: GAS TURBINE REPAIRS ON UNIT 3 AT RIVERSIDE ENERGY RESOURCE CENTER

ISSUE:

Receive and file an update of the gas turbine repairs on Unit 3 at Riverside Energy Resource Center.

RECOMMENDATION

That the Board of Public Utilities receive and file an update of the gas turbine repairs on Unit 3 at Riverside Energy Resource Center.

BACKGROUND:

The Riverside Energy Resource Center (RERC) is equipped with four General Electric (GE) LM6000 gas turbine engines, which collectively provide up to 30 percent of Riverside's daily electric power demands during the summer months. This facility was constructed in two phases: Units 1 and 2 were commissioned in 2006, followed by Units 3 and 4 in 2011. Each of these fast-start gas turbine units can generate 50 megawatts (MW) of electricity in less than ten minutes and are strategically located in the city limits providing local generation capacity. The availability of these units is critical to ensure that Riverside Public Utilities (RPU) can meet the minimum electricity demand and reliability needs.

On December 8, 2025, the Board of Public Utilities approved a Services Agreement with GE for gas turbine rotatable component exchanges at RERC for a five-year term. This agreement reduces reliance on emergency procurements, helps ensure unit availability during summer demand periods, and provides a reliable and cost-effective approach to turbine maintenance.

DISCUSSION:

During the annual borescope inspection of Unit 3, GE field technicians detected deficiencies with the combustor and submitted their findings to GE senior engineers for a more detailed evaluation.

On December 16, 2025, GE completed its engineering assessment and determined that the combustor on Unit 3 was unserviceable. GE recommended replacement to prevent the risk of a potential catastrophic failure. The existing combustor has been in service for more than 20 years,

and replacement at this stage of its lifecycle is considered normal.

Since the combustor is included as a component under the recently approved Services Agreement, staff authorized GE to source and obtain a replacement rotatable combustor in the amount of \$854,067.23, consistent with the agreed upon pricing. Under the services agreement, GE guarantees repair completion within seven months and can provide the maintenance services with the established preferred pricing. For this specific event, GE notified staff that the repair work could be performed and completed in February 2026.

Table 1 shows the breakdown of pre-authorized costs for the work. Likewise, Table 2 outlines the timing of the actual repair events for the combustor exchange for Unit 3 at RERC.

Table 1. Cost Summary

Item	Price
Combustor	\$476,657.00
Consumables	\$141,677.00
Sales Tax (8.75%)	\$54,104.23
Field Services	\$181,629.00
Total	\$854,067.23

Table 2. Timeline of Repair Events

Date	Action
December 16, 2025	Final determination of unserviceable status GE confirmed availability of a combustor
February 9, 2026	Unit 3 placed in outage to prepare for removal
February 12, 2026	GE technicians arrived on site to start the turbine removal process
February 13, 2026	GE removed Unit 3 and transported it to GE Maintenance Facility
February 17, 2026	Repairs were completed and the Unit was shipped back to RERC
February 20, 2026	Unit 3 was installed and placed back into operational status

This repair was completed in 66 days. The GE technicians who performed this work reported no additional fallout during the process (e.g., the technicians did not need to replace any other parts or components). Hence, the final cost for all rendered services matched the pricing summary shown in Table 1.

FISCAL IMPACT:

There is no fiscal impact associated with this report. Sufficient funds have already been encumbered for this expenditure.

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Attachment: Presentation