





TODAY'S ACTION

Consider approving Amendment No. 1 to the Agreement for Services with TCB Industrial Inc., to increase the dollar amount by \$265,000 for a total contract amount not-to-exceed \$365,000 to refurbish Unit 2 at the Nacimiento Dam Hydroelectric Power Plant, and to provide power plant repair services as-needed; and authorize the General Manager to execute the amendment.





Committee Action

- On August 2, 2024, the Finance Committee recommended Board approval of Amendment 1.



Prior BOD Action

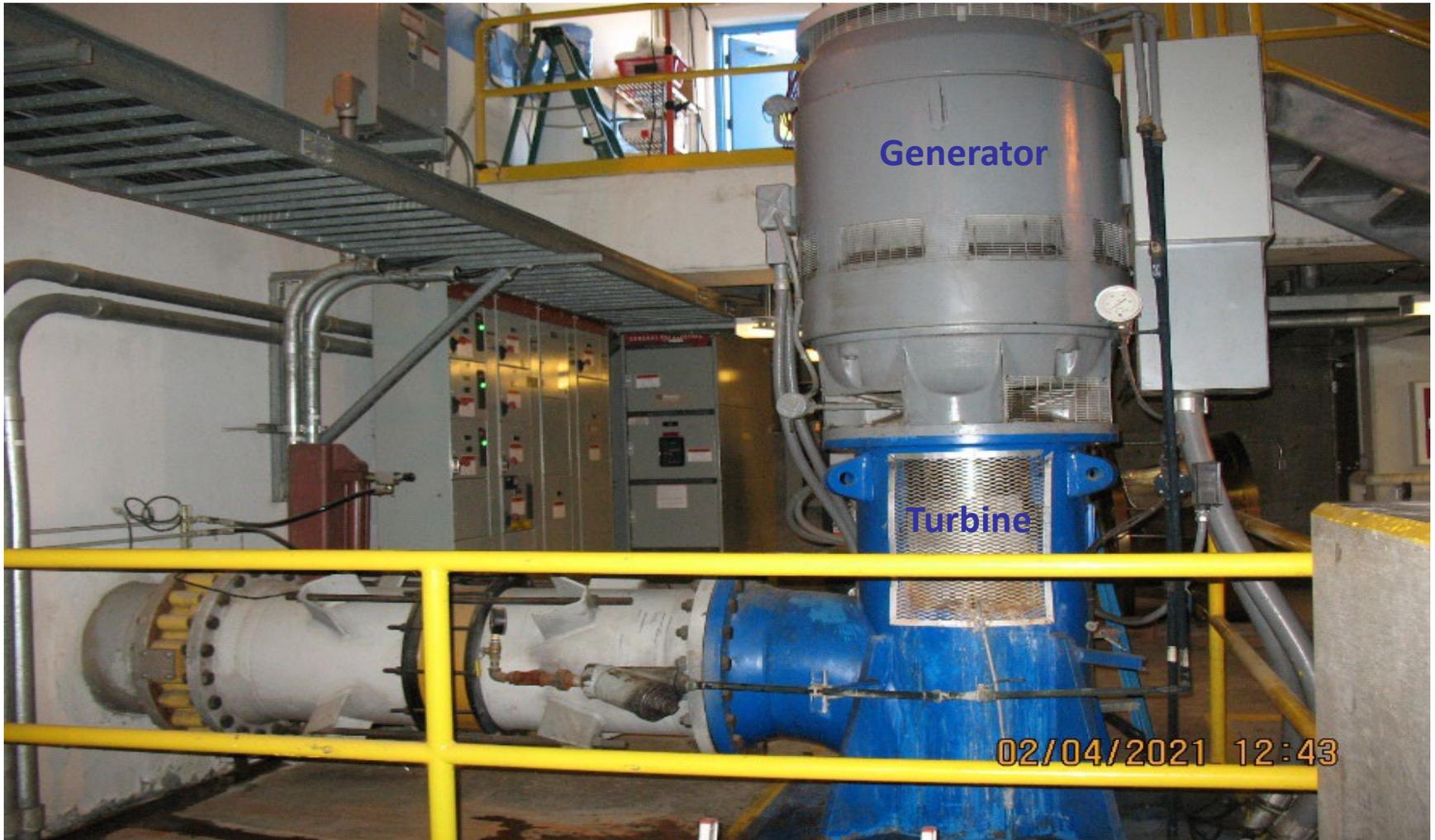
- None.

Financial Impact

- Costs for this Amendment are payable from Fund 130 - Hydroelectric Plant Operations and Maintenance.
- Amendment No. 1 increases the Agreement amount for:
 - Turbine overhaul, unit reinstallation and commissioning:\$282,997.
 - As-needed power plant repair services:\$33,678.

Discussion

- On February 19, 2024, the generator for Unit 2 of the Nacimiento Dam Hydroelectric Power Plant failed.



Discussion

- Price quotes to repair the generator were solicited, staff reviewed the proposed cost estimates and selected TCB Industrial, Inc., (TCB) to complete the generator repairs. On April 25, 2024, an Agreement for Services with TCB was executed for an amount of \$100,000 and a three-year term.
- The turbine has signs of severe mechanical wear impacting power generation efficiency. In order, to reduce mobilization costs and interruptions to power plant operation, the refurbishment of the turbine was combined with the repair of the generator.

Note: Prior turbine overhaul was completed in 2003.

Discussion

- Due to the large capital cost, the scope of work was phased out over two fiscal years to spread the repair costs.

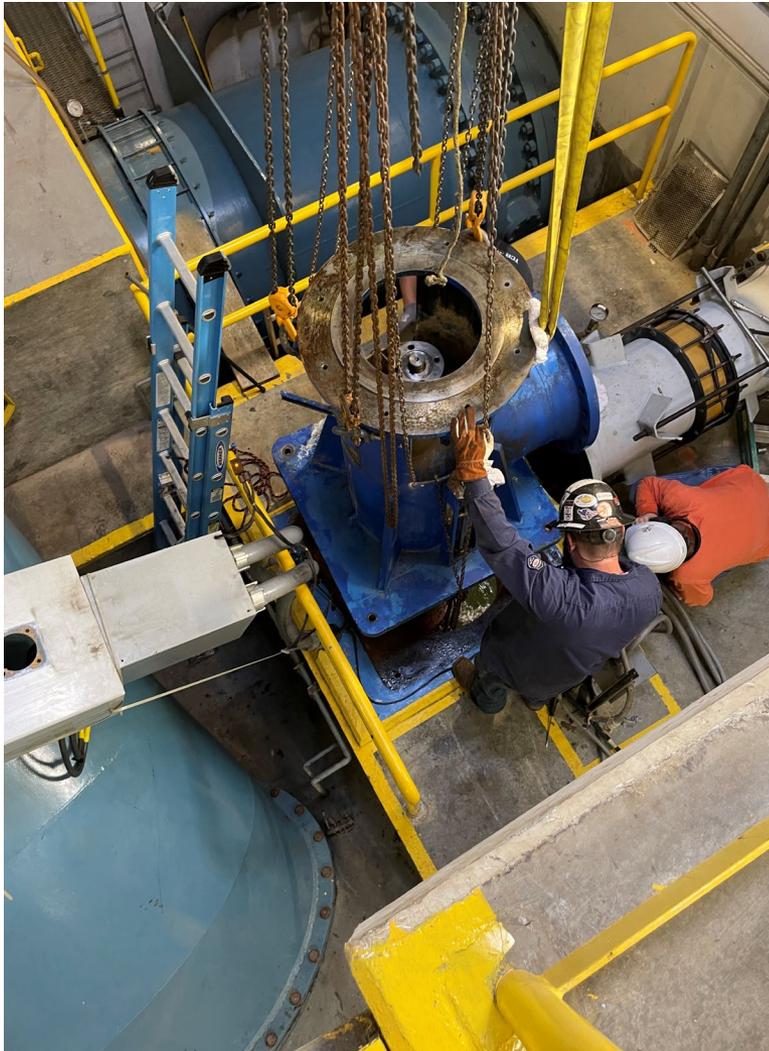
Phase 1: Covered mobilization, dismantling, transportation, and repair of generator. This work was completed in FY 23-24 for \$48,325.

*Cost of a new generator is \$180,000.

Phase 2: Includes turbine overhaul, re-installation and commissioning. This task is scheduled for completion in FY 24-25. Estimated cost is \$282,997.

Discussion

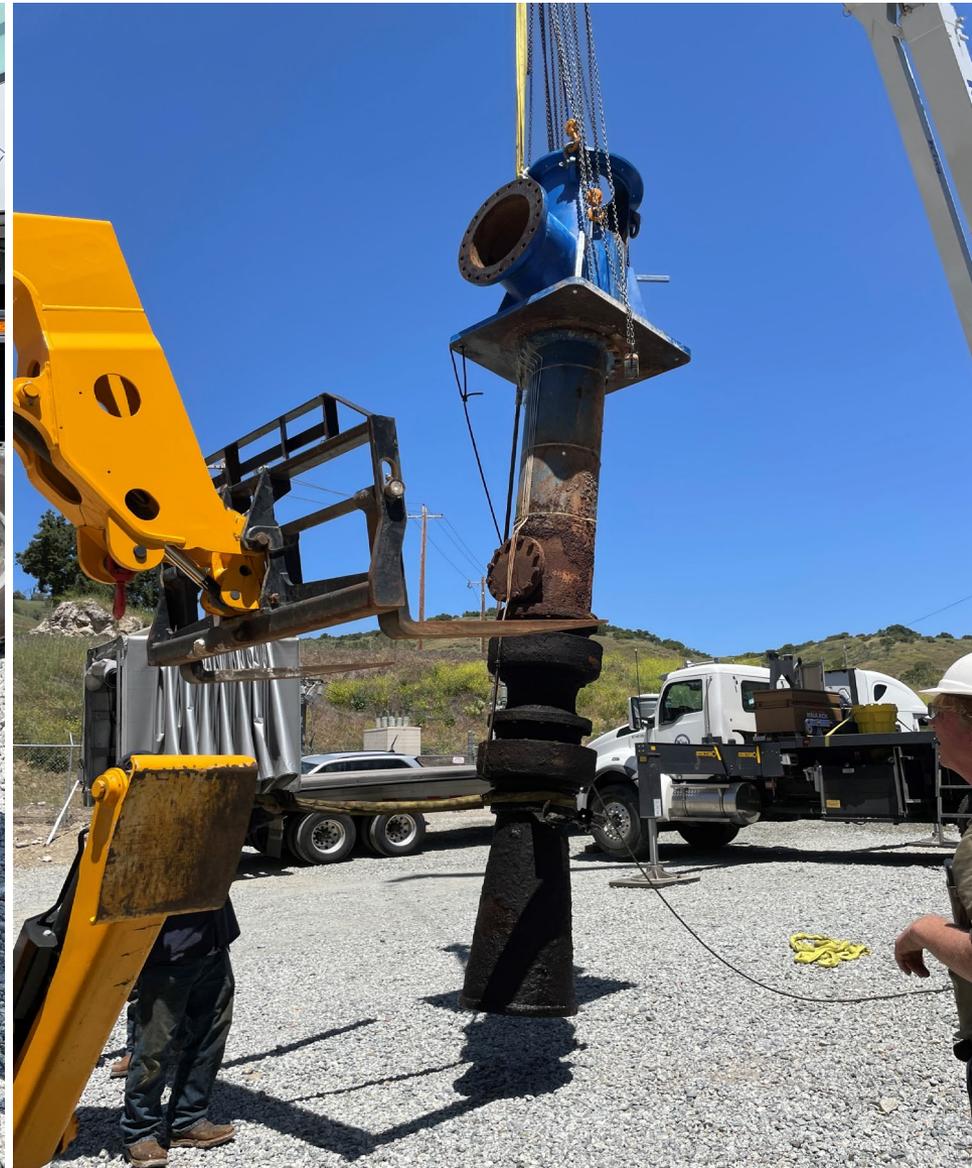
TCB dismantling Unit 2 - (April 2024)



Discussion

Generator

Turbine



Discussion

- Unit 2 will be re-installed sometime after September 30, 2024, when the Agency is allowed to shutdown the power plant for planned maintenance work. Per the Power Purchase Agreement non-emergency power plant outages are not permitted between May through September (these are peak energy demand months).



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