



REQUEST FOR ACTION

Contract Award: Lake Zumbro Hydro Plant Controls Upgrade

MEETING DATE:

October 24, 2023

ORIGINATING DEPT:

Rochester Public Utilities

AGENDA SECTION:

Consideration of Bids

PRESENTER:

Tony Dzubay

Action Requested:

Adopting a resolution authorizing an agreement with L&S Electric, Inc. in the amount of \$913,420.00 for the Lake Zumbro Hydro Plant controls upgrade, plus 10% contingency, for a total of \$1,004,762.00. Approval of this action also authorizes the RPU Project Manager to perform the acts to execute the project.

Report Narrative:

The Lake Zumbro Hydroelectric Plant (Hydro) is a 2.8 MW generating facility on the Zumbro River owned and operated by RPU. The Hydro operates on a run-of-the-river basis and consists of a powerhouse, a gravity dam spillway, and various electrical generating components.

The RPU team solicited proposals to upgrade the electrical generation, protection and control equipment, which have been in service since 1984 or longer. The new system will improve remote monitoring, simplify startup and shutdown, and enhance load control based on MN DNR-required water flows or RPU-desired power output.

The proposal summary is as follows:

Contractor	Evaluated Total
L & S Electric, Inc.	\$ 913,420
Petrotech, Inc.	\$1,126,593

This work includes the purchase of equipment, demolition, installation, and configuration services to upgrade or replace obsolete equipment such as:

- static excitation systems
- existing Woodward gate shaft governors
- vibration monitoring system
- synchronization indication and controls
- generator protection relays
- headwater and tailwater monitoring

The completed project will also include updated drawings, new operation and maintenance manuals, staff training and factory acceptance testing. Continued investment in this facility is prudent given the renewable energy it will generate for the extended future and its permanency on the Zumbro River.

Fiscal & Resource Impact:

This is a multi-year project scheduled to be completed by March of 2025 and is within the overall project budget of \$1,115,000.

Prepared By:

Mona Hoefft

Attachments:

[Proposed Agreement: 23-99 L&S Electric Hydro Plant Upgrades](#)

[20231024 Resolution - Contract Award -Lake Zumbro Hydro Plant Controls Upgrade.docx](#)