



Legislation Text

File #: 2022-044, Version: 1

Contract No. 2100575
CSO Facility Emergency Generator Improvements

Agenda of: February 23, 2022

Item No.: **2022-044**

Amount: \$1,029,090.00

TO: The Honorable
Board of Directors
Great Lakes Water Authority

FROM: Suzanne R. Coffey, P.E.
Interim Chief Executive Officer
Great Lakes Water Authority

DATE: February 1, 2022

RE: **Contract No. 2100575**
CSO Facility Emergency Generator Improvements
Vendor: Rotor Electric Company of Michigan, LLC

MOTION

Upon recommendation of Navid Mehram, Chief Operating Officer - Wastewater Operating Services, the Board of Directors (Board) of the Great Lakes Water Authority (GLWA), authorizes the Interim Chief Executive Officer (ICEO) to **enter into Contract No. 2100575, "CSO Facility Emergency Generator Improvements" with Rotor Electric Company of Michigan LLC, at a cost not to exceed \$1,029,090.00 for a duration of 731 days;** and authorizes the ICEO to take such other action as may be necessary to accomplish the intent of this vote.

BACKGROUND

GLWA operates nine (9) Combined Sewer Overflow (CSO) facilities. The CSO facilities provide primary treatment and disinfection when flows exceed the capacity of the Water Resource Recovery

Facility (WRRF). The majority of the CSO facilities operate and maintain Emergency Generators as the alternative power source per our National Pollutant Discharge Elimination System (NPDES) permit and the 10 State Standards for Water and Wastewater facilities. Most of the generators and their electrical equipment and controls are original to the facilities, exceeding 20 years of service life. Although the generators are routinely maintained and are expected to have a useful life greater than 20 years, the ancillary electrical equipment and controls have exceeded their useful life.

Additionally, remote indications for generator faults, startups and power transfers are not currently available from the remote control in our Supervisory Control and Data Acquisition (SCADA) screens. This requires operators to physically be present at a facility to transfer the power to the generators during a power outage. Finally, generator equipment and control displays differ between facilities. This creates issues when replacing parts, training operators to be proficient when rotating through facilities, and performing maintenance and testing.

JUSTIFICATION

This rehabilitation project will replace and modernize the generator electrical and control equipment at each facility to bring them into compliance with the governing standards. The facilities with generators that fall under the scope of this project are Leib SDF (Screening and Disinfection Facility), St. Aubin SDF, Belle Isle RTB (Retention Treatment Basin), Connor Creek RTB, Seven Mile RTB, Puritan Fenkell RTB, and Hubbell Southfield RTB.

The project includes upgrades to the controls system including standardizing the display panels to be uniform at all facilities. The addition of status signals from the generators into the SCADA system allows for remote indication and control for the units. The service will also include training for the team members on the switchgear equipment. This project will continue to improve the reliability of CSO facilities operations.

FINANCIAL PLAN IMPACT

Summary: Sufficient funds are provided in the financial plan for this project.

Funding Source: Sewer Construction Fund

Cost Center: Wastewater

Expense Type: Construction (5421-892211.000-616900-260622)

Estimated Cost by Year and Related Estimating Variance: See table below.

Fiscal Year

FY 2023 Plan	\$1,199,000.00
FY 2024+ Plan	800,000.00
Financial Plan Estimate	1,999,000.00
Proposed Contract Award	<u>\$1,029,090.00</u>

Estimating Variance	\$969,910.00
---------------------	--------------

The amounts above are per Draft 2 of the FY2023-2027 CIP Plan. A budget amendment will be prepared to adjust the Capital Reserves to allow for alignment of planned spending.

COMMITTEE REVIEW

This item was presented to the Operations and Resources Committee at its meeting on February 9, 2022. The Operations and Resources Committee unanimously recommended that the GLWA Board adopt the resolution as presented.

SHARED SERVICES IMPACT

This item does not impact the shared services agreement between GLWA and DWSD. An Intergovernmental Agreement between GLWA and DWSD, a cost-sharing agreement for various projects, will memorialize the scope and payment terms for the work at the Belle Isle Facilities.