



## Legislation Details (With Text)

**File #:** 2022-044      **Version:** 1      **Name:**

**Type:** Resolution      **Status:** Passed

**File created:** 2/1/2022      **In control:** Board of Directors

**On agenda:** 2/23/2022      **Final action:** 2/23/2022

**Title:** Contract No. 2100575  
CSO Facility Emergency Generator Improvements

**Sponsors:** Navid Mehram

**Indexes:** Wastewater Operations

**Code sections:**

**Attachments:** 1. 2100575.Procurement Board Report-RFB, 2. 2100575.Cost Tabulation - Notice of Respondents

Date	Ver.	Action By	Action	Result
2/23/2022	1	Board of Directors	Approved	Pass
2/9/2022	1	Operations and Resources Committee	Recommended for Approval	Pass

**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.