

**COMMISSION FILE NO:** 21-116-9 **DATE INTRODUCED:** September 13, 2021

**INTRODUCED BY:** Executive Director (Signature on File in the Office of the Commission)

**REFERRED BY COMMISSION CHAIRPERSON TO:** Operations Committee

**RELATING TO:** Change Order Request, Contract J06081D01, Engineering Services – Phase 1 Motor Control Center Replacements at Jones Island Water Reclamation Facility, and Restore the Executive Director's Original Delegated Authority

**SUMMARY:**

The Commission is requested to authorize the Executive Director to execute a change order to Contract J06081D01, Engineering Services – Phase 1 Motor Control Center (MCC) Replacements at Jones Island Water Reclamation Facility (JIWRF), with Greeley and Hansen, LLC, (Greeley and Hansen) in an amount not to exceed \$64,837 and to restore the Executive Director's original delegated authority.

JIWRF uses both self-generated electrical power (from natural gas and landfill gas turbines) and purchased power from We Energies. This power is distributed and managed throughout JIWRF using transformers, load center unit substations (LCUS's), and MCC's. Each LCUS distributes power to a number of MCC's. An MCC is an electric device that allows for safe distribution of power and control of individual pieces of equipment. Each MCC consists of circuit breakers, motor starters, and controllers, all located in cubicles surrounded by a steel enclosure. There are approximately 100 MCC's throughout JIWRF.

This project initially included design and replacement of 24 MCC's, many of which are more than 30 years old. This project will also replace two transformers, one LCUS, and one motor control substation, which are more than 40 years old. The electrical equipment included in this project has reached or exceeded its expected useful service life. The age and the limited availability or lack of replacement parts puts this equipment at an increased risk of power supply failure. The purpose of this project is to ensure that the electrical distribution and control system has a high degree of reliability to provide power for plant purposes.

**ATTACHMENTS:** **BACKGROUND** ☐ **KEY ISSUES** ☐ **RESOLUTION** ☒

**FISCAL NOTE** ☒ **S/W/MBE** ☐ **OTHER** ☐ \_\_\_\_\_

*OP\_Change\_Order\_J06081D01\_Phase\_1\_MCC\_Upgrades\_legislative\_file.docx*  
08-26-21

**COMMITTEE ACTION:** \_\_\_\_\_ **DATE:** \_\_\_\_\_

**COMMISSION ACTION:** \_\_\_\_\_ **DATE:** \_\_\_\_\_

## **SUMMARY (Cont'd)**

Change Order Request, Contract J06081D01, Engineering Services – Phase 1 Motor Control Center Replacements at Jones Island Water Reclamation Facility, and Restore the Executive Director's Original Delegated Authority

---

In September 2020, the District awarded Contract J06081D01, Engineering Services – Phase 1 MCC Replacements at JIWRf, to Greeley and Hansen in an amount not to exceed \$551,071. The scope of Contract J06081D01 includes engineering services related to replacement of 24 MCC's, two transformers, one LCUS, and one motor control substation.

As Greeley and Hansen proceeded through the preliminary design, staff identified seven additional MCC's of similar age that would make sense to replace as part of Project J06081. Following are the advantages of including these seven MCC's in Project J06081, as opposed to creating a separate MCC replacement project and performing the work in a future effort:

- Results in cost savings due to not having to provide temporary power for two separate construction efforts.
- Reduces overall equipment downtime by combining construction of all MCC's into one contract.
- Ensures that MCC's are of same manufacturer and models, which reduces spare parts inventory needs.
- Achieves cost savings through project and construction management efficiencies by combining two separate projects into one single project.

Under the scope of this proposed change order, the consultant will provide the following services related to design of the additional seven MCC's:

- Design engineering.
- Plans and specifications.
- Engineering services during construction.
- Operation and maintenance manual updates.
- Training.
- Applications engineering.

After the design work is complete, the District will publicly bid the construction contract.

The proposed 2022 Capital Budget includes funding for this additional project scope of services.

### SUMMARY (Cont'd)

Change Order Request, Contract J06081D01, Engineering Services – Phase 1 Motor Control Center Replacements at Jones Island Water Reclamation Facility, and Restore the Executive Director's Original Delegated Authority

---

	AMOUNT	PERCENTAGE INCREASE OVER ORIGINAL CONTRACT	AUTHORIZED BY	SWMBE
Original Contract	\$557,071		Commission	28.8%
Previous Change Orders	\$49,944	9.0%	Executive Director	18.9%
Requested Change Order	\$64,837	11.6%	Request of Commission	24.7%
Total Change Orders	\$114,781	20.6%		22.1%
<b>TOTAL</b>	<b>\$671,852</b>			<b>27.6%</b>

For engineering services contracts greater than or equal to \$500,000 the Commission has delegated to the Executive Director the authority to make changes up to \$200,000 or 10% of the original contract price, whichever is less. For this contract, a limit of \$55,707 prevails. To date, the Executive Director has utilized \$49,944 of this authority, leaving a balance of \$5,763. The request to restore the Executive Director's authority is in case any additional engineering services are needed.

## RESOLUTION

Change Order Request, Contract J06081D01, Engineering Services – Phase 1 Motor Control Center Replacements at Jones Island Water Reclamation Facility, and Restore the Executive Director's Original Delegated Authority

---

**RESOLVED**, by the Milwaukee Metropolitan Sewerage Commission, that the Executive Director is authorized to execute a change order to Contract J06081D01, Engineering Services – Phase 1 Motor Control Center Replacements at Jones Island Water Reclamation Facility, with Greeley and Hansen, LLC, in an amount not to exceed \$64,837, and that the Executive Director's original delegated authority is restored.