

**COMMISSION FILE NO:** 20-133-9 **DATE INTRODUCED:** September 14, 2020

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

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

**RELATING TO:** Contract J06081D01, Engineering Services - Phase 1 Motor Control Center Replacements at Jones Island Water Reclamation Facility

**SUMMARY:**

The Commission is requested to authorize the Executive Director to execute on behalf of the District Contract J06081D01, Engineering Services – Phase 1 Motor Control Center (MCC) Replacements at Jones Island Water Reclamation Facility (JIWRF), with Greeley and Hansen, LLC, in an amount not to exceed \$551,071. Greeley and Hansen, LLC, was the highest scoring proposer based on a qualifications-based selection method among six proposals received.

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), and motor control substations. LCUS's distribute power to individual MCC's throughout the facility. 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 will replace 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\_Award\_J06081D01\_Phase\_1\_MCC\_Upgrades\_legislative\_file.docx*  
08-27-20

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

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

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

### **Contract J06081D01, Engineering Services - Phase 1 Motor Control Center Replacements at Jones Island Water Reclamation Facility**

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Under this engineering services contract (J06081D01), the consultant will:

- Design replacements for the equipment as described above.
- Investigate possible consolidation of MCC and specify this consolidation if deemed beneficial.
- Evaluate and define temporary power supplies and construction strategies to minimize facility outages and maintain use of critical process and building loads during replacement of the equipment.
- Provide applications engineering services for networked power meters for each new MCC and the new LCUS to monitor energy usage.
- Provide engineering services during construction.

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

The duration for this contract is approximately 40 months.

## **RESOLUTION**

Contract J06081D01, Engineering Services - Phase 1 Motor Control Center  
Replacements at Jones Island Water Reclamation Facility

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**RESOLVED**, by the Milwaukee Metropolitan Sewerage Commission, that the Executive Director is authorized to execute 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 \$551,071.