

DATE: October 31, 2022

TO: Board of Directors

THRU: Charles H. Carden, General Manager

FROM: Maribel Medina, Interim Engineering Senior Manager

SUBJECT: Tampa Bay Desalination Facility Intake Connection Improvements: Phase 2, Project 07033, Contract No. 2022-001 Task Authorization - *Approve*

SUMMARY

A scope of services has been negotiated with Black and Veatch, retained under the Integrated Program Manager Consultant Contract 2022-001, to perform as the Owner's Engineer during the design and construction phases of the Tampa Bay Desalination Facility Intake Connection Improvements: Phase 2 (Project No. 07033), in the amount of \$688,180.

SUGGESTED ACTION

Approve Task.

COST/FUNDING SOURCE

\$688,180/Capital Improvement Funds and Revenue Bonds

DISCUSSION

In October 2021, the Board approved a task assignment with Black and Veatch, retained under the Integrated Program Manager Consultant Contract 2022-001, to perform as the Design Criteria Professional for Tampa Bay Desalination Facility Intake Connection Improvements: Phase 2 project to help staff develop a Design Criteria Package for the solicitation of Design-Build services.

Following the preparation of the Design Criteria Package, Tampa Bay Water conducted a competitive procurement process to obtain Design-Build services. Staff is requesting approval of the negotiated Design-Build contract with Archer Western Construction, LLC at the November 2022 Board of Directors Meeting (Agenda Item C1).

Black and Veatch, retained under the Integrated Program Manager Consultant Contract 2022-001, will be assigned a task to provide Professional Services and to perform as the Owner's Engineer during the design and construction phase of this project. Professional Services for this project was included in the Solicitation for the Integrated Program Manager Consultant Contract 2022-001.

Black and Veatch prepared a scope of services and fee to provide Professional Services and to perform as the Owner's Engineer during the design and construction phases of the project. The proposed scope includes Value Engineering, Risk Management, Conducting Design and Construction Submittal Reviews, Permitting Reviews, Construction Oversight and Inspection, Quality Assurance and Quality Control of Design-Builder Activities, Startup and Commissioning Support, and Construction Closeout Support. The proposed fee is \$688,180, inclusive of \$40,000 of Owner's Allowance.

Board approval is required for work assignments exceeding \$250,000. Staff recommends Board approval of the negotiated work assignment for Professional Services for the Tampa Bay Desalination Facility Intake Connection Improvements Phase 2 project. The proposed scope and fee breakdown are attached to this Agenda Item.

BACKGROUND

As previously reported to the Board, the Tampa Electric Company (TECO) announced plans to modernize their Big Bend Power Station including upgrading a portion of the power plant with an alternate technology and modifications to the typical operations of its power generation units and cooling water tunnels. The Tampa Bay Seawater Desalination Water Treatment Plant (Desal Plant) is co-located with TECO's Big Bend Power Station and draws seawater supply from TECO's Tunnels 3 and 4. The initial 2018 TECO announcement indicated plans to cease operations of the cooling water tunnel associated with Power Generation Unit 2 (Tunnel 2). In late 2021, TECO informed Tampa Bay Water of its plan to also retire Power Generation Unit 3 and the associated cooling water tunnel (Tunnel 3) in April 2023, earlier than previously expected.

To address the impacts from TECO's modernization project, staff have implemented a two-phase approach to address the impacts. Phase 1 (project 07032) was completed in December 2021 and provided a new intake connection to Tunnel 1. Phase 2 (Project 07033) will extend the Phase 1 connection to a new pump station facility and a new pipeline that can deliver approximately 50 million gallons per day of seawater supply from the TECO's Tunnel 1 to the existing Desal Plant seawater intake pump and piping system near TECO's Tunnel 4.

Like Phase 1, Phase 2 is being delivered using the Design-Build approach. Black and Veatch, retained under the Integrated Program Manager Consultant Contract 2022-001, performed as the Design Criteria

Professional for this project and helped staff develop a Design Criteria Package for the solicitation of Design-Build services.

This task is a continuation of those services where Black and Veatch will perform as the Owner's Engineer during the design and construction phases of this project.

Attachments (1)

[Scope of Services & Fee](#)