



AGENDA MEMORANDUM

Action Item for the City Council Meeting of August 19, 2025

DATE: August 19, 2025

TO: Peter Zaroni, City Manager

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<p style="text-align: center;">Professional Services Contract ONSWTP Electrical Reliability Upgrades</p>
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CAPTION:

Motion authorizing a professional services contract to HDR Inc., of Corpus Christi, Texas, to evaluate AEP's recommended infrastructure improvements and the medium-voltage infrastructure at the O.N. Stevens Water Treatment Plant (ONSWTP) to recommend electrical reliability improvements and reduce service interruptions to plant operations in an amount up to \$144,199.00, located in Council District 1, with FY 2025 funding available from the Water Capital Fund.

SUMMARY:

This motion authorizes approval of a professional engineering contract to evaluate and recommend solutions to improve electrical resiliency of the O.N. Stevens Water Treatment Plant for the ONSWTP Electrical Reliability Upgrades project.

BACKGROUND AND PURPOSE:

The O.N. Stevens Water Treatment Plant was constructed in the 1950s and has since gone through a few expansion and renovation projects to increase its capacity, providing safe and reliable water for the city of Corpus Christi. Approximately 35 billion gallons of water are treated each year.

The ONSWTP is currently the City of Corpus Christi's only water treatment plant, making it imperative for public safety to maintain a minimum water pressure of 35 pounds per square inch during normal operating conditions, as required by TCEQ. Reliable electrical infrastructure is a critical necessity to meet TCEQ requirements and safeguard public health. When electrical outages occur at the ONSWTP, it results in high service pump shutdowns and subsequent pressure drops in the distribution system. Pressure drops in the water distribution system can cause backflow, which allows contaminants to infiltrate drinking water. This event poses a risk to public health and safety.

The scope of services for this proposal is to evaluate and recommend solutions to improve electrical reliability and resiliency of the O.N. Stevens Water Treatment Plant. The evaluation of ONSWTP electrical reliability will be comprised of two main tasks:

- The first task is to coordinate with AEP to evaluate their proposed infrastructure improvement solutions for reducing service interruptions to the plant and increasing the reliability of the power supply. HDR will review AEP's solutions and recommend modifications or alternatives to the AEP proposal.
- The second and parallel task will focus on evaluating targeted on-site plant electrical distribution equipment to increase the reliability for current and future plant loading.

PROJECT TIMELINE:

2025 – 2026
August – February
Evaluation

The project schedule reflects City Council award in August 2025, with anticipated completion of the evaluation by February 2026. The design and construction phases of the project will be developed later depending on recommendations of the evaluation.

COMPETITIVE SOLICITATION PROCESS

The Contracts and Procurement Department issued a Request for Qualifications on September 30, 2024, with RFQ Number 6146 for Professional Engineering Services for Capital Improvement Projects FY2025. The City received statements of qualifications from four firms and a technical evaluation was performed by the selection committee. The selection committee consisted of representatives from Corpus Christi Water (CCW) and Engineering Services.

Firm ranks were based on three factors:

1. Experience of the firm
2. Experience of the key personnel with specific experience with similar projects
3. Understanding of Project Scope

HDR, Inc., has been selected for this project based on its extensive experience and qualifications. With over 30 years as a Civil Engineering firm, HDR's notable projects for the City include the Mary Rhodes Pipeline Phase I Condition Assessment, Alameda Street, Packery Channel Dredging & Beach Nourishment, Packery Channel Harvey Repairs, Packery Channel Structural Damage Restoration, and a Comprehensive Feasibility Study for Seawall.

ALTERNATIVES:

City Council could choose not to award the contract to HDR, Inc. Not awarding the contract for professional services to HDR, Inc. will delay necessary improvements and may affect the ability to satisfy the safety, operational, and regulatory requirements.

FISCAL IMPACT:

The fiscal impact for Corpus Christi Water in FY 2025 is an amount of \$144,199 with funding available from the Water Capital Fund.

FUNDING DETAIL:

Fund: Water 2020 (Fund 4099)
Department: Water (45)
Org: Grants and Capital Projects (89)
Account: Outside Consultants (550950)
Activity: 23024
Amount \$144,199.00

RECOMMENDATION:

City Staff recommends approval of the professional services contract with HDR, Inc. in an amount not to exceed \$144,199 for the ONSWTP Electrical Reliability Upgrades project.

LIST OF SUPPORTING DOCUMENTS:

Location & Vicinity Maps
Evaluation Matrix
Proposal
CIP Page
Presentation