O.N. Stevens Water Treatment Plant Electrical Reliability Upgrades Project

Nicholas Winkelmann, P.E. Director, Water Systems and Support Services August 19, 2025

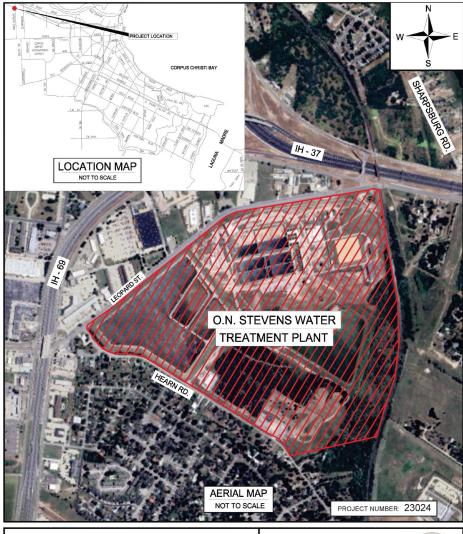


Background

- The O.N. Stevens Water Treatment Plant (ONSWTP) is the City's only water treatment plant.
- Expansion and renovation projects are underway to improve both resiliency and reliability of which power is a critical component.
- 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.
- Reliable electrical infrastructure is a critical necessity to meet TCEQ requirements and safeguard public health.



Project Location



ONSWTP ELECTRICAL RELIABILITY UPGRADES



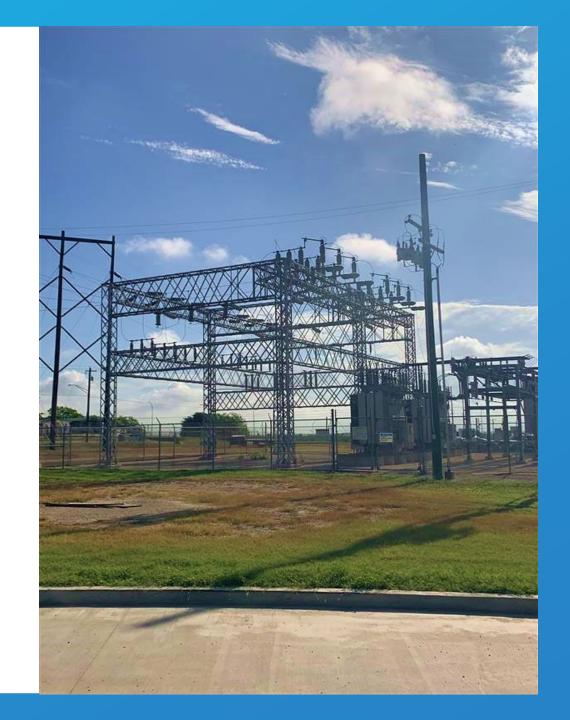


Project Scope

Evaluate and recommend solutions to improve electrical reliability and resiliency of the ONSWTP.

The evaluation will be comprised of two main tasks:

- First task: Coordinate with AEP to evaluate their proposed infrastructure improvement solutions for reducing service interruptions and increasing reliability of the power supply
 - HDR will review AEP's solutions and recommend modifications or alternatives
- Second and parallel task: Focus on evaluating targeted on-site plant electrical distribution equipment to increase reliability for current and future plant loading



Project Timeline



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

Staff Recommendation

City staff recommends approval of a professional services contract with HDR, Inc. in an amount not to exceed \$144,199 for the ONSWTP Electrical Reliability Upgrades project. The fiscal impact for Corpus Christi Water in FY 2025 is an amount of \$144,199 with funding available from the Water Capital Fund.



Thank you!

