



CITY OF
EL SEGUNDO

Permanent Repair of the City of El Segundo Wiseburn Aquatics Center Pool Heaters

Department of Public Works

11/4/2024

City of El Segundo | 350 Main St. El Segundo, CA 90245

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Background

- The construction of the Aquatics Center was initiated as a result of the settlement agreement between Wiseburn Unified School District (WUSD) and the City.
- Construction began in January 2017.
- Facility was opened to the public in January 2019.
- Two of the heaters for the competition pool (larger pool) failed completely in March 2022.
- Temporary repairs were made in July 2022 for approximately \$190K.

Current

- Currently there are three distinct and separate heating systems.
- Each system consists of one boiler with its own external heat exchanger unit.
 - The competition pool has two of these heating systems, with a heating capacity of 1.24 million BTU/hr for each system (subtotal of 2.48 million BTU/hr).
 - The practice pool has the third heating system, with a heating capacity of 0.4 million BTU/hr.
- The total heating capacity of the Aquatics Center currently is 2.88 million BTU/hr.

Proposed System

- The new system will function as a single system and will heat both pools at the same time. The heat will be transferred to where the heat is needed the most.
- The system output is rated as 6 million BTU/hr and is designed to reduce the need to constantly run three boilers (2 million BTU/hr each) by providing redundancy:
 - One 4-million BTU/hr external heat exchanger unit for competition pool
 - One 1-million BTU/hr external heat exchanger unit for practice pool
 - Having the extra 1 million BTU/hr will allow the system to run more efficiently, thus reducing fuel, maintenance, and repair costs, and minimizing service interruptions.
- All necessary reconfiguration of electrical, plumbing, and mechanical systems is included.

Proposed System (continued)

- Cost – approximately \$614,000
- Budget - \$700,000 (including \$86,276 in contingencies)
- Construction time – Approximately 6 to 8 weeks
- When – July & August 2025 (pool will be shutdown during this period)
- Lead time to obtain equipment – 6 to 8 months
- Contractor – Knorr Systems (same contractor who made temporary repairs)

Other Notes

- WUSD will reimburse the City up to \$300,000 upon completion of the work
- All parts and equipment for the proposed system are made in the U.S.
- One year warranty on parts and materials
- City is trying to obtain an extended five-year warranty

Recommendation

1. Adopt a resolution, by four-fifths vote, declaring the existence of an emergency and authorizing the award of a contract without competitive bidding pursuant to Public Contract Code §§ 1102, 20168, and 22050 regarding the needed permanent repair work for the heaters at the Aquatics Center.
2. Authorize the City Manager to approve and execute a standard Public Works Construction contract with Knorr Systems International to repair existing heaters at the El Segundo Wiseburn Aquatics Center for an amount of \$613,724 and authorize an additional \$86,276 as contingency funds for potential unforeseen conditions, for a total budget amount of \$700,000.
3. Alternatively, discuss and take other action related to this item.

Questions

Boiler & External Heat Exchange Unit

