

## ***Collin County Community College District Board of Trustees***

1. Facilities and Construction Committee

February 25, 2021

Resource: Christopher Eyle  
Vice President of Facilities & Construction

**DISCUSSION ITEM:** Consideration of Approval of the District President to Finalize Negotiations and Execute a Contract for the Purchase and Installation of New Boilers, Pumps, and Piping at the Plano Campus

**DISCUSSION:** At the Plano Campus, there is not enough boiler capacity to heat the building. A project to install new boilers, pumps, and piping to adequately accommodate the heating load of the campus is planned.

There are two boilers in the main central plant that were refurbished in 2005. The current heat plant worked well for the original building. However, over the years multiple expansions have been accomplished and the heat plant was not increased in capacity. Currently on a cold day, the heat plant cannot adequately meet the heat required in the building. To effectively heat the building, not only the boiler plant but also the heating water distribution piping mains need to be upsized or supplemented.

The current conditions result in the heating plant running full capacity during the majority of the cooler months and the inability to effectively heat the entire campus. There is no redundancy in heating capacity, meaning if one pump or boiler fails on a cold day the campus will experience significant heating issues. The need for more heating than what is available also causes the boilers to receive colder water than they are designed for which can cause them to fail more quickly. The heating plant is operating inefficiently and uses more energy due to low heating water temperatures and constant full load operation.

The recommended project will replace the two existing boilers with new, more efficient, and physically smaller boilers to properly meet the heat demand of the campus, provide necessary redundancy, and upsize the main heating water line in the plant.

Formal solicitations will be issued and evaluated to determine the contractor. The funding for this project is budgeted and available in the Facilities and Construction Renewal & Replacement budget.

Delegating authority to the District President to contract for these services will expedite the work to be performed. The intent is to have the new boilers in place for fall 2021.