

It's real.

MEMORANDUM

To: Mayor and City Council Members
Steve Parker, City Manager

From: Greg Odom, Director of Facilities

Through: Rick Cortes, Assistant City Manager

Subject: Coliseum Chiller Project

Date: July 22, 2020

Due to ongoing issues with the chilled water plant at the Coliseum, on March 30, 2020 the City hired Bay & Associates Consulting Engineers to evaluate the chilled water plant at the Coliseum. Based on their review, it was determined that the current 140-ton chiller that was installed in 2002 is substantially oversized, which has led to excessive wear on the chiller's compressors.

It has been determined that the current chiller system will only operate properly if it is operated at full capacity, which only happens a few times a year. It is the recommendation of the engineers that we install a 40 ton pony chiller. The smaller chiller will satisfy the cooling needs of the facility during the majority of the functions at the Coliseum and when needed the larger chiller will engage to handle the load requirements.

To date, the City has had to replace two compressors and has had multiple service calls which has equated to approximately \$80,000 in repair cost. With the addition of the pony chiller it will extend the life of the existing chiller and lower our overall repair costs. In addition to savings on repairs we estimate a 12% to 15% reduction in electrical consumption.

Staff solicited bids to install a new 40-ton pony chiller and upgrade the control system for the chillers and air handling units. Texas Chiller Systems was selected to perform these services at a total cost of \$121,300. Texas Chiller Systems submitted their quote through the State of Texas Cooperative Purchasing Program "Texas SmartBuy" contract. Texas SmartBuy and is available for use by local governments, meets all bidding requirements. Staff recommends approval and will be available to answer any questions.