

MEMORANDUM

TO: Donna Barron, City Manager

VIA: Keith Marvin, P.E., Director of Public Services

FROM: Karen Emadiazar, Utilities Manager, Public Services

DATE: October 24, 2018

SUBJECT: **Approval of a Bid Award for the Prairie Creek Wastewater Treatment Plant Emergency Generator to Clark Electric, Inc., Sunnyvale, Texas, in the Amount of \$1,680,000 and Authorization for the City Manager to Execute the Agreement.**

BACKGROUND

This project includes the furnishing and installation of a 15kV generator, transfer switches, conduit, electrical appurtenances and a switchgear building to operate the entire wastewater treatment plant during an emergency in which all electrical power to the plant is lost. The generator is sized to operate the plant at 100% of the current capacity. The Wastewater Plant treats all the wastewater for the City of Lewisville, as well as Castle Hills.

The Wastewater Treatment Plant is currently served by a dual loop system with electrical power supplied by two separate substations from Texas New Mexico Power. The addition of the generator will allow further power stability should there be a critical loss of electrical power to the treatment plant. Historically, there have been four incidents where all electrical power to the treatment plant has been lost for a significant period. One such incident in the 1980s caused both federal and state permit violations with the discharge of untreated sewage into the receiving stream which leads to the Elm Fork of the Trinity River.

In addition to the environmental needs for redundant power sources, significant safety risks are inherent with the current system which require plant staff to energize the change-over of the electrical systems. These tasks are often performed during electrical outages from storms. Due to the plant's dependency on power to maintain treatment processes, this switchover of power sources must be performed promptly to not affect plant performance.

ANALYSIS

A total of four (4) bids were received on October 11, 2018. Clark Electric, Inc. had the lowest responsible bid, with acceptable proposed equipment and references. The bid from Clark Electric, Inc. is recommended for award.

Clark Electric, Inc. submitted a bid of \$1,600,000.00 for the work to be performed to provide the electrical generator and associated equipment for the Wastewater Treatment Plant. Additional

contingency funding in the amount of \$80,000 is included in the total. Funding is available in the Capital Improvement Project account for the Generator Project, U1501.

Once notice to proceed is issued on this project, equipment procurement and construction related activities will commence. The project is expected to take 300 calendar days, with completion schedule in late 2019.

RECOMMENDATION

It is City staff's recommendation that the City Council approve the award as set forth in the caption above; and authorize the City Manager to execute the agreement.