



MEMORANDUM

To: Mayor and City Council

From: Kumar Gali, P.E., Assistant Director of Public Works
Kent Collins P.E., Director of Public Works

Date: October 26, 2021

Reference: Village Parkway Pump Station Standby Generator

2040: Foundation Pillar: Sustainable City Government
Goal 4: City Services to Ensure High Levels of Customer Satisfaction

General Information:

- Council awarded design of new standby generator for Village Parkway Pump Station (VPPS) on July 14, 2020, to Gupta and Associates, Inc.
- Construction scope included supply and installation of new standby generator and configurations between the new generator and VPPS.
- The Engineer's opinion of probable construction cost was \$2,199,608.07.
- City advertised for bids on July 16th and received two qualifying bids on August 17th.
- Clark Electric, Inc. was the lowest bidder. The total bid price for the VPPS standby generator improvements is \$1,702,832.00.

Introduction/ Analysis:

This agenda item is being presented to consider approval of awarding Bid # Q-0821-01 Village Parkway Pump Station Standby Generator to Clark Electric, Inc. in the amount of \$1,702,832.00 for the supply and installation of new standby electric generator; funded through Bond proceeds; and authorizing the City Manager to sign all necessary documents.

The City of Coppel (City) is a wholesale water customer of Dallas Water Utilities (DWU). We purchase all of our treated water from Dallas, and it is delivered to us ready for distribution to our residents and business customers. Our distribution system includes two elevated storage tanks, approximately 200 miles of water main, two ground storage tanks, and the Village Parkway Pump Station (VPPS). Using these facilities, we purchase and pump on an average of more than 3,000,000,000 gallons of water annually.

The VPPS was constructed in 1990 with three pumps and a single ground storage tank. In 1995 the facility was expanded with three additional pumps and an additional ground storage tank. All the water purchased by the City of Coppell from DWU is delivered to the VPPS and passes through these two-ground storage tanks and is pumped out into our distribution system through VPPS.

The VPPS has two Oncor primary services that feed the pump station. These feeds power the station and the pumps. Multiple times a year we lose power to one or both feeds due to various circumstances such as rolling blackouts, lightning storms, etc. During the winter storm in February 2021, the VPPS lost all power multiple times over the course of two days, with the longest stretch being eight hours. When we lose power, the pumps cannot supply water to the residents and pressure is provided solely through head generated by water in the two elevated storage tanks. A portable generator on a trailer serves as the only backup power source during emergency power loss. The portable generator needs to be started manually in the event of power outage and can only supply power two smaller pumps at a time. Additionally, the fuel tank is undersized creating the need to replenish it frequently. During peak water demand periods, the portable generator is insufficient to power the pumps needed to supply water to residents and maintain required pressures without severe water restrictions being implemented.

This construction award is to install a permanent automatic transfer standby generator that is capable of powering four pumps and the station equipment in the event of power loss. Running four pumps will meet the requirements of water supply to residents during the peak demands. The new generator has a fuel tank capacity that can provide 24 hours of power supply without frequent refueling needs. Powering four pumps to provide a minimum of 20 psi and having a fuel capacity of 24 hours satisfies the requirements of 2022 Texas Commission on Environmental Quality's (TCEQ) Emergency Preparedness Plan (EPP). Exhibit A shows the location of the VPPS and the new standby generator.

On August 17th, 2021, the City opened two qualifying bids, the bid amounts were \$1,702,832.00 and \$1,844,469.00, and the Engineer's opinion of probable construction cost was \$2,199,608.07. Bids were evaluated based on the cost, qualifications, and references. Clark Electric, Inc. was the lowest qualified bidder of the two bidders. Exhibit B includes recommendation from the design engineer and Exhibit C includes Clark Electric, Inc. bid form and contract.

Legal Review:

The City's standard construction contract has been reviewed by legal periodically, with changes made as requested.

Fiscal Impact:

The fiscal impact of this item is \$1,702,832.00, funded through Bond proceeds.

Recommendation:

The Public Works Department recommends approval of this bid award to Clark Electric, Inc.