



MEMORANDUM

To: Mayor and City Council

From: Ken Griffin, P.E., Director of Engineering and Public Works

Date: September 13, 2016

Reference: Deforest Lift Station Backup Generator

2030: Sustainable City Government, Goal 3
Excellent and Well-maintained City Infrastructure and Facilities

General Information:

- NEMA3 will furnish and install the new generator, with a total cost of \$151,325.06 at the Deforest Lift Station.
- The new generator will be adequately sized to handle the operation of two 150hp pumps and all electronics inside of building.
- The existing generator was purchased in 2008 and will be relocated to be used as a backup power supply for the Sandy Lake Lift Station to be scheduled at a later date and not included in this quote.
- This project will occur in two phases, this agenda item is for phase one.

Introduction:

Consider approval to award a bid and agreement to Nema 3 Electric, Inc. for the purchase and installation of generator equipment for emergency backup power for the Deforest Lift Station; and authorizing the City Manager to sign any necessary documents. This purchase will upgrade the exiting backup power at the Deforest Lift Station to an adequately sized generator capable of running two 150hp pumps and all necessary electrical equipment during power outages.

Analysis:

This project will occur in two phases. This agenda item is for phase one. The Deforest Lift Station was put into service in 2005/2006; and in 2008/2009 the existing generator was installed. The current generator is undersized for the amount of energy being produced while the pump station is being utilized. The Public Works division is asking for approval to purchase and install a new larger unit in place of the overused existing generator. This larger backup power generator will insure that the City

of Coppell has sufficient power to use two of the three 150hp pumps at our Deforest Lift Station without concerns during power outages.

During the second phase of this project, our department will be requesting to install the existing generator from the Deforest Lift Station to the Sandy Lake Lift Station where there is no sufficient back-up power supply. In the coming fiscal year, we are looking at hiring a consultant firm to help us analyze the current state of the Sandy Lake Lift Station, and recommend any improvements including flood protection. At that time we will install the generator onsite. In the meantime, the existing generator can be towed to the Sandy Lake Lift Station on a trailer, when needed, during power outages.

Legal Review:

Agenda item did not require legal review.

Fiscal Impact:

The fiscal impact of this agenda item is \$151,325.06 as budgeted in Water/Sewer fund.

Recommendation:

The Engineering and Public Works Department recommends approval of this award to NEMA 3 Electric.