



CARSON CITY NEVADA
Consolidated Municipality and State Capital
PUBLIC WORKS

September 28, 2020

To: Board of Commissioners

From: Carson City Public Works

Subject: Additional Information on Well Site Generators

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LATE MATERIAL

Carson City Public Works has prepared this letter to provide additional information supporting the City's plan to place permanent generators at three of the City's well sites as requested in Special Use Permit number LU-2020-0023, LU-2020-0024, and LU-2020-0025.

The City has 30 well sites and 12 pump stations that supply water, fill storage tanks, and support the water network and end users. During peak demand in some specific pressure zones, the City has approximately 12 hours of storage; however, some areas would notice an immediate decline in service if a power outage were to occur. Currently the City does not have on site emergency backup power at any of our well sites and only one of our pump stations.

Section 445A.6705 of the current Nevada Administrative Code (NAC) requires a standby or auxiliary source of power must be provided for pumping facilities including wells. As a part of an updated Emergency Operations Plan the City has identified the need to have permanent site generators at some well sites while utilizing portable generators at other sites in order to adequately support the water system during a power outage. Additionally, the Bureau of Water Pollution Control (BSW) requires sewer lift stations have on-site emergency power backup.

As directed by the Board of Supervisors, the City pursued a grant through the Department of Emergency Management to purchase four portable generators and four permanent site generators to be used to support well sites, pump stations, sewer lift stations, and other critical utility facilities. The four sites selected to have permanent generators were chosen due to being high producers of water in strategic locations throughout the City with adequate room on the site to place a generator. Additionally, the Well 24 site was chosen because a generator at this location could support a sewer lift station located in the median of 5th Street several hundred feet to the east. Approval to install the generators at well sites 24, 41, and 55 will drastically help City staff maintain critical water service during a more significant power outage and meet NAC and BSW requirements.

Thanks for your consideration on the matter,

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