Agenda Report

Agenda of: June 10, 2025

Department: Public Works

Subject: Generators Installation Update

Recommended Motion: Discussion and possible action directing the installation of fixed base generators at both the City Well sites on Athens Street and London Street to maintain water system operations during a power outage emergency. Wells 2 and Well 3 generator cost is $281,650.00 and the electrical needs will be $55,900.00.

Background: This project began in or before 2019 with the engagement of a third-party consultant to determine the appropriate generator sizing for each site. The scope involves installing backup generators at water well plants and sanitary sewer lift stations to ensure uninterrupted operation during power outages or emergencies. These generators will provide reliable power to critical infrastructure, helping to prevent service disruptions and safeguard public health and safety.

Reliability: They ensure continuous operation of critical infrastructure, preventing service disruptions during power outages.

- **Public Health and Safety**: Maintaining water supply and wastewater management is crucial for public health, especially during emergencies.
- **Regulatory Compliance**: Many agencies are required to have backup power systems for essential services to prevent environmental contamination and health hazards.
- **Operational Efficiency**: Generators help avoid costly downtime and potential damage to equipment caused by power interruptions.

Reasons for Generators:

- Ensure uninterrupted operation of water well plants and sanitary sewer lift stations during power outages. **(pending approval)**
- Enhance the reliability and resilience of the water and wastewater systems. **(pending approval)**
- Comply with regulatory compliance requirements and industry standards for emergency power systems. **(pending approval)**
- Conduct a detailed site assessment to determine the optimal location for generator installation **(complete)**
- Prepare the site, including any necessary excavation, grading, and foundation work. **(pending approval)**
- Ensure environmental and safety regulations are met, including fuel storage and spill containment measures. **(complete)**

- Selecting appropriate generators are sized based on the power requirements of the water well plants and sanitary sewer lift stations. **(Engineered and complete)**
- Procure generators, ensuring they meet all technical specifications and regulatory standards. **(procurement pending approval, professional engineered sizing complete)**
- Install generators, including all necessary electrical connections, transfer switches, and control panels. **(pending approval)**
- Install 6' barbed wire security fencing around site. (On separate budget / project)
- Integrate generators with existing electrical systems to ensure seamless operation during power outages. **(pending approval)**
- Install fuel supply systems, including tanks, piping, and safety features. **(pending approval)**
- Conduct thorough testing of the installed generators to ensure proper operation under load conditions. **(pending installation and inspection approval)**
- Perform commissioning activities, including system checks, performance verification, and troubleshooting. **(pending installation and inspection approval)**
- Provide training to operational staff on the use and maintenance of backup generators. **(pending installation approval)**
- Once generators have been selected, lead-times currently 38-44 weeks out after approval. Lead times stated were noted as of **(As of October 17, 2024.)**

Fiscal Impact: $337,550.00

☐ **Budgeted** ☒ **Requires Budget Amendment**

Source of Funding: Account Code: 20-514 Water Funds

Attachments:

Attachment A- Castroville Generators – Cost Breakdown Per Site

Attachment B- Wells 2 and 3 Electrical Quotes for needs on Generators 1st

Attachment C- RFI Generators Response no.1

Urgency (0-5 = Low Urgency to High Urgency):

Impact (0-5 = Low Impact to High Impact):

Submitted by: John Gomez