

AGENDA ITEM 5: BACKUP GENERATORS 9/8/2021

The District received a grant of \$137,000 from the Governor's Office of Emergency Services to help replace aging generators at the District's two waste water treatment plants and at Well 1B, the District's primary source well for drinking water. Grant funds can only be used for the purchase of generators, fuel tanks, and connecting equipment.

The District has selected Smith Power Products to provide the generators and the transfer switches for a bid price of \$85,700. The original plan was to simply replace the generators in their current locations. District staff reviewed the project with electrical and mechanical engineers and a representative from High Sierra Propane. The reviews found and concluded the following:

- a. Replacing the indoor generators at Well 1B and at WWTP 7 will require minor modifications to the buildings for improved ventilation.
- b. Using propane will require the installation of a 500 gallon tank at Well 1B and a 1000 gallon tank at WWTP 7.
- c. At WWTP 6, locating generator indoors and placing a propane tank on the property will require major modifications to the site, therefore it was determined that a trailer mounted diesel fueled generator will be used instead. The change significantly increased the cost of the generator at that site as well the transfer switch that will allow a portable generator to be connected.
- d. Well 2 needs the capability to be connected to a portable generator, and it was decided to install a suitable transfer switch at that location as well.

The current budget for the project is \$210,000 with \$137,000 coming from the grant. However, the estimated cost of a 125 Kw portable generator that could be used at all locations was \$60,000 more than the originally planned fixed unit at WWTP 6. We have not yet received a quote for a smaller one that would address the needs at WWTP 6 and Well 2. Also, the extra switch at two is adding \$10,330 to the cost of the project. Costs for all the fuel tanks and their installation by High Sierra Propane is \$14,000.

We will open the bids for generator installation on September 15 at 2:00 PM.

Further informal bids will be solicited from other propane companies to see if tank costs can be lowered.

Once all bids are in, CalOES will be contacted to see if more funding is available, if needed.

Currently our estimated costs are shown in the table on the next page. The amounts in yellow may be reduced or eliminated.

ELIGIBLE COSTS (costs that can be paid for with grant funds)

Site	Equipment	Cost
Well 1-B	75kW fixed generator (indoors)	\$ 24,320
Well 1-B	Single Connection Transfer Switch	\$ 1,680
	Fuel Tank 500 gallon	\$ 5,002
	SubTotal	\$ 31,002
WWTP 7	125kW fixed generator (indoors)	\$ 32,020
WWTP 7	Single Connection Transfer Switch	\$ 1,680
	Fuel Tank 1000 gallon	\$ 6,337
	SubTotal	\$ 40,037
WWTP 6	Dual Connection Transfer Switch	\$ 10,330
WWTP 6	120 kW portable generator	\$ 83,440
	SubTotal	\$ 93,770
Well 2	Dual Connection Transfer Switch	\$ 10,330
	SubTotal	\$ 10,330
	Total	\$ 175,139
INELIGIBLE		
Well 1 B	Fuel Tank Install and taxes	\$ 1,300
Well 1B	Generator Install	\$?
WWTP 7	Fuel Tank Install and taxes	\$ 1,400
WWTP 7	Generator Install	\$?
	Engineering	\$ 11,889
	Total	\$ 14,589
	Current total	\$ 189,728