



## Request for Council Action

**TO:** Mayor and City Council  
**THROUGH:** Tim Murray, City Administrator  
**FROM:** Travis Block, Public Works Director  
**MEETING DATE:** March 9, 2021  
**SUBJECT:** Accept Quote for Standby Generator for Well #7

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### **Background:**

Attached is a quote from Ziegler Power Systems, Shakopee MN for \$69,500.00 for a standby generator to provide backup electrical service to Well #7. The quote is under Sourcewell cooperative purchasing contract #120617, of which the City is a member (#131101). The generator will provide power to the well in the event of a power outage, ensuring that the water distribution system continues without interruption.

Previously, a portable generator was used to provide backup power. Improvements made to the well during construction of phase one of the new water treatment plant resulted in an increase in the motor size on the well. The portable generator that was previously used does not meet the power requirements of the newly improved well.

The proposed generator from Zeigler will be stationary, and will eliminate the need to replace the portable generator in a future year of the Capital Improvement Plan (CIP). The stationary generator is the most cost-effective way to provide standby power to the well. There is no sales tax on the purchase, funding will be provided by the Water Fund (601).

### **Recommendation:**

Accept Quote from Ziegler Power Systems, Shakopee MN for Standby Generator for Well #7

### **Attachments:**

- Quote

Proposal by

Date: March 2, 2021



Proposal No. EPG30853671

8050 County Road 101 East  
Shakopee, MN 55379  
952-887-4574

To: City of Faribault  
Sourcewell Member #131101  
Attn: Mike Glende

Re: **Emergency Standby Generator**  
Sourcewell Contract #120617 – CAT  
“City of Faribault Water Treatment”

WE PROPOSE TO FURNISH IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS, TERMS AND CONDITIONS

- QUANTITY: One (1) new CATERPILLAR diesel generator set mounted in outdoor insulated/sound Attenuated enclosure rated 71dBA @ 23ft. Color – CAT White
- MODEL: D400GC
- RATING: 400kW – Stand By
- VOLTAGE: 480/277 volts, 3 phase, 4 wire, 60 HZ, 1800 RPM
- BREAKER: One (1) 600 amp 3 pole circuit breaker w/shunt trip
- FUEL TANK: UL listed, dual wall integral base tank – 675 gallons, 24 hour capacity
- WARRANTY: Four (4) years, 2000 hours through sourcewell member benefit
- INSTALLATION: By Others

**TOTAL GENERATOR PRICE: \$ 69,500 .00\***

**\*Please refer to the attached Bill of Material.  
\*Price does not include state or local sales and/or use tax.**

**APPROXIMATE SHIPPING:** 13-14 weeks after submittal approval

**F.O.B.** Jobsite on truck

**TERMS:** Net 20 days

**THIS PROPOSAL SUBJECT TO ALL PROVISIONS OF THE CONTRACT AND WARRANTY ON REVERSE SIDE**

**ACCEPTED:**

*Respectfully submitted,*  
**ZIEGLER INC.**

By: Logan Cameron

Logan Cameron, Sales Engineer

By: \_\_\_\_\_ Subject to approval by

**ZIEGLER INC.**

APPROVED:

Its: \_\_\_\_\_ By: \_\_\_\_\_

## ***BILL OF MATERIAL***

***EPG30853671***

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**ONE (1) EMERGENCY STANDBY DIESEL FUELED GENERATOR SET, RATED 400KW  
STANDBY @ 480/277 VOLT, 3 PHASE, 60 HERTZ, 1800 RPM**

### **PACKAGED GENERATOR SET**

Caterpillar heavy-duty diesel, Tier III Engine  
Model C13 GC  
Direct injected, air to air-after cooled  
13-liter displacement  
In line 6-cylinder Configuration  
UL2200 Listed / NFPA110 Compliant  
Fuel: Diesel

### **AIR INLET SYSTEM**

Air cleaner  
After-cooler core, copper nickel construction  
Turbochargers, single stage

### **CONTROL SYSTEM**

Caterpillar ADEM control system

### **COOLING SYSTEM**

Radiator, high capacity  
Blower fan  
Fan drive  
Belt and fan guards  
Upper and lower radiator connections  
Antifreeze, 50% ethylene glycol with rust inhibitor  
Jacket water pump, gear driven, centrifugal  
Jacket water heater  
    One (1) 2kW heater  
    240 volts, 1 phase  
    High-pressure hose  
    Isolation valves

### **EXHAUST SYSTEM**

Exhaust manifold, dry, round flanged outlet  
Exhaust silencer, critical grade, mounted in enclosure  
Exhaust-flex connector, bellows type, stainless steel construction, ANSI outlet flange

### **FLYWHEEL AND FLYWHEEL HOUSING**

Flywheel, SAE No. 1  
Flywheel housing, SAE No. 1  
SAE standard rotation

### **GENERATOR AND GENERATOR ATTACHMENTS**

Brushless Excitation  
Permanent magnetic generator (PMG)  
Generator anti-condensation heater  
Digital voltage regulator, volts/hertz

## ***BILL OF MATERIAL***

***EPG30853671***

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### **GENERATOR SPECIFICATIONS**

- Regulation
  - Less than  $\pm 1\%$  no load to full load
- Regulator drift less than  $\pm 1/2\%$  steady state
- Temperature drifts less than  $\pm 1\%$  for any  $40^\circ\text{C}$  change over the operating temperature range
- Regulator response Less than 4 milliseconds
- Regulator sensing Three phase

### **CIRCUIT BREAKER**

One (1) 600 amp 3 pole circuit breaker w/shunt trip

### **PROTECTION SYSTEM**

Safety shutoff protection, energized to shut off  
Generator running relay  
Generator common alarm/shut down relay  
Coolant level sensor

### **LUBE SYSTEM**

Crankcase breather  
Oil cooler  
Oil filler and dipstick  
Oil filter, RH  
Oil pump, gear driven  
Lubricating oil, Cat CXP, SAE 30, CD

### **STARTING SYSTEM**

Starter motor, 24 VDC  
Alternator, 24V, 45 amps  
Battery, lead acid, low maintenance CAT industrial batteries  
Battery rack, corrosion resistant  
Battery charger, dual rate float style, 10 amps charger with alarms  
Heavy-duty 950 CCA batteries

### **OUTDOOR SOUND ENCLOSURE**

Outdoor insulated/sound attenuated enclosure rated 71dBA @ 23 feet  
Color, CAT White  
100-amp load center panel  
Interior LED convenience lights  
GFCI convenience outlets  
Critical grade exhaust silencer, mounted inside generator enclosure

### **FUEL TANK**

Dual wall integral fuel tank, 675 gallons, 24 hour capacity at 100% load  
Manufactured entirely from 8 gauge (4 mm) steel  
Integral lifting points  
Corrosion resistant pre-coat  
Tank level indicator  
Emergency vent lines

## ***BILL OF MATERIAL***

***EPG30853671***

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### **GENERAL**

Submittal drawings

Technical data, engine, generator, radiator, switchgear, ancillary equipment

Drawings, schematics, wiring diagrams

Owner and operation manuals

Supervision by project management.

Warranty - Four (4) years, 2000 hours

Authorized CAT technician to perform start-up/commissioning

Delivery to jobsite on Ziegler CAT truck

Training session for owners personnel

### **COMMENTS AND CLARIFICATIONS**

Mechanical and electrical installation provided by others

Initial fuel fill provided by others

Crane/rigging for unloading unit provided by others

ATS provided by others

### **NOTES**

Ziegler limits the scope of supply for this quotation to the equipment and services listed.

Equipment not listed is assumed to be provided by others.

Ziegler cannot provide air emission permits for customers. We will provide emission information on the Caterpillar engine to the owner to aid in the permitting process.

Orders are subject to re-stocking charges if cancelled after release for production.

State and local permits for fire, air, fuel tanks or building permits are not included and provided by others.

Start-up labor is to be performed during normal business hours, Monday through Friday 7:30 am to 4:00 pm. Training is to be performed at the end of start-up. Additional trips or delays required or requested due to contractor delay and/or issues with equipment not provided from Ziegler Power Systems will be billed at published field service rates.

### **Terms:**

- Extension of contract beyond term must be at the mutual agreement of the parties.
- Ziegler Inc. shall not be liable for consequential damages or damages beyond our control.
- Customer is responsible for adequate site conditions and security.
- Customer must provide adequate insurance to cover equipment damage or loss.
- Price(s) do not include state or local sales and/or use taxes.