



## **Norton Power Systems**

1203-A Eaglecrest  
Nixa, MO 65714  
Office: 417-724-9420  
Cell: 417-872-9370  
Fax: 417-724-9421

### **PROPOSAL**

**NUMBER: JAN92621**

**DATE:** April 18, 2022

**TO:** City of Republic  
C/O City Clerk, Larua Burgridge  
213 N. Main Avenue  
Republic, MO 65738

**PROJECT:** Republic BUILDS Building

**Quantity 1** – Generac Industrial diesel engine-driven generator, turbocharged/aftercooled 6-cylinder 15.2L engine, consisting of the following features and accessories:

- Stationary Emergency-Standby rated
- 500 KW rating, wired for 277/480 VAC three phase, 60 Hz
- Permanent Magnet Excitation
- MLCB, 80% rated thermal-magnetic
  - 800 Amp
- 25" 1001 Gallon double-Wall UL142 Basetank
  - Mechanical fuel level indicator gauge
  - Electronic fuel level sender
- Standard Weather Protective Enclosure, Steel
  - Industrial Grey Baked-On Powder Coat Finish
- EPA Certified
- cETLus
- Power Zone Pro Digital Control Panel for Single Generators
  - Meets NFPA 99 and 110 requirements
  - Temp Range -40 to 70 degrees C
  - Humidity 2-95% (Non Condensing)
  - UL6200
  - C-ETL-US
  - CE
  - FCC
  - IEC801 (Radiated Emissions, Susceptibility, and Surge Immunity)
  - 4.3" Resistive Color Touchscreen
    - Built-in Wi-Fi, Bluetooth, and Webserver (via Power Zone Connectivity Server)
    - IP65 (Front)
    - Auto/Manual/Off key switch, alarm indication, Not in Auto Indication, audible alarm, emergency stop switch
  - Dual Core Digital Microprocessor
    - RS485, Ethernet, and CANbus ports
  - All engine sensors are 4-20ma for minimal interference
    - Sensors: Oil Pressure, optional Oil Temp, Coolant Temp and Level, Fuel Level/Pressure (where applicable), Engine Speed, DC Battery Voltage, Run-time Hours, Generator Voltages, Amps, Frequency, Power, Power Factor
    - Alarm Status: Low or High AC Voltage, Low or High Battery Voltage, Low or High Frequency, Pre-low or Low Oil Pressure, Pre-high or High Oil Temp (optional), Low Water Level and Temp, Pre-high or High Engine Temp, High, Low, and Critical-low Fuel Level/Pressure (where applicable), Overcrank, Over and Under Speed, Unit Not in Automatic
    - Programmable I/O
    - Built-in PLC for special applications
  - Engine function monitoring and control:
    - Full range standby operation; programmable auto crank, Emergency Stop, Auto-Off-Manual Switch

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- Isochronous Governor
  - 0.25% digital frequency regulation with: soft-start ramping – adjustable, gain – adjustable, overshoot limit – adjustable
- 3 Phase RMS Voltage Sensing
  - +/-0.5% digital voltage regulation with: soft-start voltage ramping – adjustable, loss of sensing protection – adjustable, negative power limit – adjustable, Hi/Lo voltage limit – adjustable, V/F slope and gain – adjustable, fault protection
- Service reminders, trending, fault history (alarm log)
- I2T function for full generator protection
- Selectable low-speed exercise
- 2-wire start controls for any 2-wire transfer switch
- 21 Light Remote Annunciator, surface mount
- 90 AH, 700 CCA Group 27F Battery, with rack, installed
- Block Heater, 2500 watt @ 240VAC
- Std Heavy Duty Air Cleaner
- Battery Charger, 10 Amp, NFPA 110 compliant, installed
- Critical Grade Silencer
- Std set of 3 Manuals
- Standard 2-Year Limited Warranty
- SD0500KG22152D18PPYY2

### Quantity 1 – Automatic Transfer Switch PSTS Series consisting of the following typecode and components:

- Service Entrance Rated, Open Transition
- 800 Amp, 3 pole, 277/480 VAC three phase
- CUL Listed UL 1008 Listed
- NEMA 3R Enclosure
- ATC-300+ Microprocessor-Based Controller
  - 2-Line, 32-Character Alphanumeric LCD Display
  - Front Panel Mimic Diagram with colored LEDs for Source/Load Indication
  - Standard Features:
    - Sending and Programmable Setpoints for both Normal (S1) and Emergency (S2): Under-voltage/under-frequency, Over-voltage/Over-frequency; voltage Unbalance Sensing and Phase Reversal for all phases
    - Adjustable Time Delays: Engine Start, Transfer Normal to Emergency & Emergency to Normal, Engine Cooldown, Emergency Fail
    - Pushbutton for Bypassing Time delays on Transfer/Retransfer
    - Test Pushbutton
    - Contacts for Go to Emergency (S2)
    - MODBUS Communication
    - Digital Programmable Plant Exerciser:
      - Off, 1-Day, 7-Day, 14-Day, 28-Day Intervals
      - Adjustable 0-600 Minutes Run Time
      - Selectable for load or No load
    - Auxiliary Contacts:
      - Normal (S1) Source Present (2 form C)
      - Emergency (S2) Source Present (2 form C)
      - Normal (S1) Position Indication (1 form C)
      - Emergency (S2) position Indication (1 form C)
      - Pre-Transfer Signal contacts (1 form C)
- 37A – Service equipment rated w/o Ground Fault Protection
- 41A – 100W space Heater with adjustable Thermostat
- 42 – IBC/CBC Seismic Qualified
- 12L – Indicator Light, Normal source Tripped
- 36 – Load Shed from Emergency
- 16N – Overcurrent Protection, source 1
- 32A – Time Delay neutral, Adjustable
- Standard 2 Year warranty
- ATV3NBC30800XRU



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Quantity 1 – Freight

**Notes:**

Estimated Delivery: 32-38 weeks ARO  
Prices valid for 60 days from above date  
FOB: jobsite  
Factory Start-up provided by NPS after installation by others is complete.

**TOTAL LABOR AND MATERIAL.....\$110,415.00 plus tax if applicable**

**TERMS AND CONDITIONS**

- A. Freight is included.
- B. Payment terms are net thirty days.
- C. This proposal includes only those services and/or repairs specified above. If additional services are required, the additional parts, labor, and material will be done on a time and material basis after customer's approval or quoted separately.

**Customer Acceptance: Prior to ordering equipment or services, please sign and return.**

Firm Name: \_\_\_\_\_ **City of Republic** \_\_\_\_\_

Accepted by: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

Purchase Order Number: \_\_\_\_\_

Respectfully submitted,  
Norton Power Systems

Jeffrey A. Norton  
President