

Austin • Brownsville • Corpus Christi • Dallas • Edinburg • Ft Worth • Laredo • Longview • Pflugerville • San Antonio • Victoria • Waco

Regarding: City of Grand Prairie Auto Pound

60 kW Diesel Generator & ATS Turnkey Install NJPA Member

Quote No: 30405792

Date: 1/30/18

Quote Expires: 30 Days

Caterpillar Model-C4.4 LCABR Generator Set

Power Setting 60 kW

Voltage 208/120 VAC, 3Ø, 60 Hz.

Application Rating Standby

Engine Caterpillar – 4.4L Diesel

Diesel Engine – EPA Tier 3 Certified

Certification – UL2200

Engine Governor Isochronous, Electronic

Cooling System GenSet Mounted 122°F/50°C Ambient

Engine Lube Oil & Antifreeze 50/50 Mix

Engine Coolant Heater

Low Coolant Temperature and Level Alarm Switches

Coolant drain line with valve

Fan and belt guards

Caterpillar Extended Life Coolant

Coolant level sight gauge

Jacket water pump, gear driven, centrifugal

Thermostats and housing

Air Inlet System Air Cleaner

Turbocharger

Lube System Oil cooler

Lubricating oil

Oil filler and dipstick

Oil filter

Oil drain line with valve piped to edge of base

Fumes disposal piped to front of radiator

Starting System 12 volt DC Electric Cranking Motor

Batteries, Battery Rack, & Cables

Battery Charger - 10amp

Charging System Engine Driven Battery Charging Alternator

Exhaust System Carbon Steel

Critical Grade

Internally mounted

Stainless Steel Engine Exhaust Flex Connector

Exhaust manifold, dry Exhaust Rain Cap Generator/Alternator 4 Pole, Single Bearing & Attachments Excitation - 300% FLC PMG 2/3 pitch, random wound IP23 Protection Class H insulation Cable connections located inside generator housing(NEMA compatible) Power center, IP22 rear facing Automatic Voltage Regulation - 3Ø Sensing Anti-Condensation/Space Heater Integrated Voltage Regulation System (IVR) Voltage Regulation Electronically controlled by the EMCP 4 through the use of an excitation module. Main Line Breaker Circuit Breaker GenSet Mtd.-225 Amp 100% Rated w/ Shunt Trip & Auxiliary Contact 3 Pole Cable Lugs, Cable Access Box – Bottom Entry **Control Panel** Electronic Modular Control Panel – 4.2 Genset Mounted & Vibration Isolated Emergency stop pushbutton Voltage adjust potentiometer Speed adjustment Panel illuminating lights Controls for: Auto/start/stop Speed and voltage adjust Engine cooldown timer Engine cycle crank Alarm acknowledge Lamp test Digital monitoring for: RPM DC volts Operating hours Oil pressure Coolant temperature Digital AC metering – 3 phase, true RMS, +/- 2 % accuracy Voltage (L-L, L-N) Current (Phase)

Average Volt, Amp, Frequency kW, kVAr, kVA (Average, Phase, %)

Power Factor (Average, Phase)

kW-hr, kVAr-hr (total)

Generator frequency

Hertz

Safety Shutdown protection with common indicating light for:

Low oil pressure

High coolant temperature

Overspeed

Emergency stop

Failure to start (overcrank)

Low coolant level

Generator Protection

Generator phase sequence

Over/Under voltage

Over/Under frequency

Reverse Power (kW)

Reverse Reactive Power (kVAr)

Overcurrent

Engine Monitoring

Coolant temperature

Oil pressure

Engine speed (RPM)

Battery voltage

Run hours

Crank attempt and successful

start counter

Engine Protection

Control switch not in auto (alarm)

High coolant temp (alarm

and shutdown)

Low coolant temp (alarm)

Low coolant level (alarm)

High engine oil temp (alarm

and shutdown)

Low, high, and weak battery voltage

Overspeed

Overcrank

Inputs & Outputs

Two dedicated digital inputs

Six programmable digital inputs

Six programmable form A dry contacts

Two programmable form C dry contacts

Two digital outputs

Communications

Primary and accessory CAN data links

RS-485 annunciator data link Modbus RTU (RS-485 Half duplex)

Digital AC Meters - Volt, Amp, Hz -

w/ 3Ø Selector Switch Digital Engine Gauges & Alarms

Remote Annunciator - Caterpillar 16 point

NFPA 110 - Qty 1

Caterpillar Enclosure Sound Attenuated Package

> Sound Rating of 74 dBA at 23' in free-field environment

Wind Rating of 150MPH **Key Locking Doors**

Epoxy Enamel Paint Finish – CAT White Linear Vibration Isolators (Elastomeric)

Engine / Generator Skid-Base Rails

Primary fuel filter w/ integral water separator Fuel System

& secondary filter

Fuel priming pump Flexible fuel lines Fuel pressure gauge Engine fuel transfer pump

Fuel Tank Diesel Base Tank

Mounting System

Accessory Items

UL 142 Listed Double Wall

137 Gallon Capacity/134 Gallon Usable carbon steel - heavy gauge material

Lockable Fuel Fill

12' Above Grade Normal Vent

shipped loose to be installed at site

12' Above Grade Emergency Vent

shipped loose to be installed at site

5 Gallon Spill Bucket

Overfill Prevention Valve (Mechanical)

Fuel sender (FL4STG1)

Low, Critical Low, High & Critical High

Level Gauge, Fuel Lines, Venting & Alarm Contacts Factory Testing - Standard Caterpillar Test at .8 PF

for Full Rated Load

Factory Warranty - 2 Yr./1000 hours*

*NOTE: When purchased through NJPA Program

Factory Warranty is extended to

4 Yr./2000 hours at no additional cost.

Current Lead Time 17-19 weeks out of the factory ARO

AUTOMATIC TRANSFER SWITCH -

Zenith Series - ZTS-Automatic Transfer Switch

Model: ZTS000B00040F

Operation: ZTS - Open Transition

Application: Utility to Generator - Auto Transfer

Amperage: 400 Amp

Poles: 4 Pole

World Pole: North America

Country: ZEXP-US (United States) Voltage Phase/Wires: 3 Phase/4 Wire

Voltage Frequency: 60Hz

System Voltage: ZVC40 (120/208 volt, 3 phase, 4 wire, 60 hz)

Enclosure: ZEC3R0SB (Nema 3R)

Option Package: MEXE00S (Exercisor Package - 3 Phase)

Communications: ZNM0200 (Modbus RTU Communication module)

Heater: HT208MX (HT1-Heater/Thermostat -mtd in ATs encl)

Warranty: 2 years

Current Lead Time: 2-4 weeks

Accessories & On-Site Services:

Service & Make Ready

Standard Caterpillar Testing

Delivery to Job Site

On-Site Start Up testing using resistive load banks - 2 hours

Performed during normal business hours

On-Site Training available during start up testing

if requested at time other than start up additional costs will be incurred

O & M Manual - Qty 1

Submittals provided in electronic format

Note: All start up and commissioning services to occur one/same day.

Generator and ATS - Install Scope of Work:

- 1. Any and All Misc. Materials to make a complete and operable assembly.
- 2. All wiring to meet the requirements of the 2011 National Electrical Code.
- 3. No back charges for cleanup will be accepted unless prior written notice and forty eight hours has been given to comply.
- 4. Concrete and Concrete work for a 12' X 8' pad with a 8" x 12" perimeter beam.
- 5. Conduit and wire for the Line/Load from the 400 Amp 208 volt,
 - 3 Phase Disconnect to the ATS.
- 6. Install of the 400 amp ATS.....(1).
- 7. Crane to set the 60 KW Genset.....(1).
- 8. Conduit and Wire for the Power from Genset to the ATS.
- 9. Conduit and Wire for the Start Wiring from ATS to Genset.
- 10. Conduit and Wire for the Charger and Block Heater to Genset......(1) 30 Amp/120 volt.
- 11. Conduit and Wire from Genset to the Remote Annunciator.

12. Install of Remote Annunciator.....(1).

Exclusions:

- 1. Utility Company Charges.
- 2. Cutting, patching, coring and roof penetrations.
- 3. HVAC and Mechanical, controls, control wiring and starters.
- 4. Bonding.
- 5. Temporary power.
- 7. Omissions from Electrical Drawings or Specifications.
- 8. Fuel for Startup & Testing.
- Any and All Engineering Fees and Bills for Drawings/Plans/Documents designed and sealed by an engineer.
- 10. Conduit, Wire and Terminations for the Line /Loads from Utility and Load side power to building.
- 11. Any and All Excavation/ Backfill of site, for the Utility, and Load side conduits and conductors.
- 12. Coordination study, infrared or NETA testing of ATS or Generator/s.
- 13. Landscaping or irrigation.
- 14. Local codes are not included unless stated.
- 15. State/Local/Emissions Taxes.

Qualifications:

- 1. All Products included in this Proposal are valued (based on current Commodity Pricing) at the time of the Bid. An Increase in the price of Raw Materials between the estimate time and time of official award of the project will require a Change in the final price to complete the project.
- 2. Price firm for 30 days and based on a mutually acceptable contract.
- 3. Pricing is based on all work being completed Monday through Friday 8:00 AM through 4 PM.

BMS - Install Scope of Work:

This proposal is for the expansion of the existing Reliable Controls energy management control system. This proposal is for a turnkey system installation inclusive of all hardware, electrical installation, programming, user interface graphics, scheduling, trending, alarms, and training. This system installation will enhance the building's operation and long-term sustainability.

We propose to furnish necessary equipment, labor and materials for the above referenced work.

Our quotation includes the following.

Generator Items included:

Tie-in to existing Reliable Controls front-end Setup of trendlogs for all inputs and setup of runtime logs Onsite Training This proposal includes a 1 year warranty. DDC system to control:

Caterpillar Generator

Dedicated Reliable DDC Controller

All required control cable and installation

Static IP router, remote alarming via text/email, complete graphics package per owner's requirements.

MODBUS communications interface to generator and ATS.

If ATS does not have MODBUS, the dry contact alarms will be monitored instead.

Control enclosure with UPS (uninterruptable power supply) to keep system online during power transfer.

BMS - Clarifications and exclusions:

All conduits, pathways, coring, trenching, and any other work required to get cable from the generator and ATS to inside the building is excluded from this proposal.

The MODBUS cards are assumed to already exist in good working order.

This proposal excludes MODBUS cards for the ATS and generator.

Owner to provide list of the MODBUS points that are needed for monitoring for configuration of the MODBUS profile.

Owner to provide a dedicated static IP address for remote communication. Sales tax, bonds and permits not included.

RETAIL PRICE	· · · · · · · · · · · · · · · · · · ·
NJPA Member PRICE	\$105.392.41

Reference NJPA Contract # 080613-CAT

Note: Any code interpretations made by the inspector with jurisdiction that lead to changes in material or scope of work are billable and will be handled as a change order should they arise.

Terms are 30days net with approved credit.

Price is valid for 30 days

Price does not include applicable taxes

To order or start submittals please sign, date and send back to my attention:

Name	Date	

Thank you,

John Fabrega Power Systems Sales 2001 N. Loop 12

Irving, TX 75061

Mobile: 972.978.5407 john.fabrega@holtcat.com



HOLT POWER SYSTEMS TERMS & CONDITIONS

Mufflers are to be lifted and put in place on top of the enclosure at the time of off loading

by the installing contractor.

Proposal This proposal is provided to meet the spirit and intention of the project equipment

requirements. Some interpretational differences between our proposal and the specifications may exist, therefore the above bill of material contains our offer for this

project, none other is expressed or implied unless stated in writing.

Pricing Recently the cost of some of our vendor products has experienced severe price swings in

the upward direction. Therefore it has become increasingly difficult to hold our prices for a prolonged period of time. If our quote is older than 20 days please call to verify our price.

Taxes The above price(s) does(do) not include state and local taxes unless otherwise specifically

stated. A 1.5% additional ser charge is required by the state of Texas for all stationary engine equipment due to emission restrictions. This is in addition to any

state and local taxes that may be required.

Lead Time Standard delivery of proposed Caterpillar Generator Set to jobsite will be confirmed after

receipt of order and submittals are approved and credit terms are agreed.

Automatic transfer switch(es) is(are) quoted to jobsite in approximately 6-8 weeks after receipt of order and approved submittals and approved credit terms are agreed.

The above quoted lead-times are standard lead-times from the factory at the time of this quotation. In some cases lead-times maybe able to be improved to assist in customer needs. Please call and inquire about possible improved lead-times.

Please note: The Caterpillar factory has mandatory factory shutdowns for two weeks in December/January and one week in July. The length of those shutdowns will extend lead-times on orders entered at those times. Orders, which include non-standard features, may require additional time before shipment. Consult with your Caterpillar dealer at the time of order.

Holt Power Systems has made a significant commitment to ensuring we are able to quickly respond to opportunities by maintaining a substantial inventory that may reduce the lead-time above.

Special Notes Please verify the voltage, number of poles in ATS, terminal conductor sizes and other Bill

of Material items quoted above as compared to the requirements of this project. Lugs for

terminations above 1200A are not included.

Fuel Tank Increasingly we are seeing dramatic changes occur at the municipal level in regard to fire

code requirements. They are too numerous and variable to keep track of for each of the area municipalities. Unless otherwise stated within the body of this quotation, the fuel tank included is as specified by the written specifications of this project (if specifications were supplied at the time of quotation). The specifications may be in conflict with City Fire

Codes for the location of the project. We will make every attempt to notify you of specification variances with local codes when known, however responsibility for compliance lies with the specifying engineer and those that pull the permit for the project.

Payment

Terms are NET 30 DAYS at the time of shipment to jobsite based on Holt credit department approval, otherwise terms are C.O.D.

Term's

Payment due in full Net 30 after delivery with approved Holt credit or COD at time of shipment.

Sales tax will be added to invoice. Resale tax certificate must be on file with the Holt credit department for tax-exempt sales.

Warranty

Caterpillar standard two (2) year warranty applies for standby applications. Standard manufacturer's warranty applies to all non-Caterpillar equipment. Copies of warranty statements are available upon.

Cancellation

There will be a minimum 25% cancellation fee for orders cancelled, once placed and accepted by Holt Power Systems. Cost of custom components, completed fabrication, or any other work performed at the time of cancellation will be added to the cancellation fee. If all material have been acquired the cancellation fees will be 100%. Caterpillar content, 14 days after orders placed will be 100% of the order.

Other

Holt Power Systems is an equipment supplier only. No fuel, wiring, connecting, hook-up, plumbing, or other installation type labor is included in the proposal unless noted herein.

The customer is responsible for any and all installation of the above equipment. Holt personnel will perform an installation audit prior to start-up.

Unless stated otherwise in this proposal, service and/or maintenance for this equipment are not included. Our company product support service group will be glad to quote the end user of this equipment for those services under a separate proposal.

All equipment needed to perform any loading or unloading of the equipment supplied by Holt Power Systems is the responsibility of the buyer.

Holt Power Systems limits the scope of supply for this quotation to the equipment and services listed in our bill of material. Unless specifically listed in our bill of material, equipment not indicated is to be supplied by others. We have detailed the equipment proposed in the bill of material. Please carefully review it to be certain it meets your requirements.

No NETA, infrared scanning, meg-testing or other third party testing is included unless expressly indicating in writing above.

We reserve the right to correct any errors or omissions.

Contracts which include penalty or liquidated damage clauses for failure to meet promised shipping dates are not acceptable or binding on Holt Power Systems, unless accepted and confirmed in writing by an officer of Holt Power Systems and it's headquarters.

Holt Power Systems standard terms and conditions are included in the quotation and hereby become part of this quotation. These same terms need to be noted on any purchase order received by Holt Power Systems.

Holt Power Systems will not be responsible for any labor or material charged by others associated with the start-up and installation of this equipment unless previously agreed upon in writing by Holt Power Systems. Star-ups are to be conducted between Monday through Friday during normal business hours and excluding nights, weekends, or holidays unless agreed otherwise in writing. Otherwise our standard overtime rates will apply.

We value your confidence in us, and the products we represent and appreciate your

business. If there are any terms, conditions, or any other aspect of this quotation you do not understand, please contact us immediately and we will gladly clarify.