



FLORIDA

DETROIT DIESEL-ALLISON

A Stewart & Stevenson Company



PROPOSAL

Date: May 3, 2019

Attn: **BRETT WRIGHT/ CITY OF KEY WEST**

Ref: **350KW GENERATOR/ CITY OF KEY WEST POLICE STATION**

Proposal #: **19OPP44285**

Stewart & Stevenson FDDA LLC (d/b/a "Florida Detroit Diesel-Allison") proposes the following scope of work:

*** SCOPE OF WORK ***

MTU ONSITE ENERGY MODEL: (Qty - 1) – DS350D6SPA (MTU 6R0225 DS350)

GENERATOR: 350 kW, 437.5 kVA

VOLTAGE: 120/208 ACV 3-Phase (P)

ENGINE: 6135HFG84, 60 Hz Diesel, 1800 RPM

Standard Features Included: Steel Sub Base, Battery Cables, Battery Box, Flex Fuel Connector, Oil Drain Extension, Lube Oil and Anti-freeze

Selected Model Features Included: Isochronous Governor + / - .25%, 130 degree Temperature Rise - 433CSL6216, Five (5) Year / 3000 Hour Comprehensive Extended Standby Limited Warranty, UL2200, Permanent Magnetic Generator, Fuel Water Separator Filter. EPA Tier 3 Certified. Full Load Amos: 1216 Amps

CONTROL PANEL: MGC-2000 Control Panel

The Digital Genset Controller utilizes microprocessor based technology to provide a versatile system for genset control, protection, monitoring and event logging. The MGC-2000 model with standard LCD heater includes touch screen password protected programming capabilities and a standard USB communications port for re-programming and simple loading of software upgrades. This version is equipped with generator metering, engine monitoring, genset control, engine protection, generator protection (27, 59, 81O, 81U), BESTCOMSPiUS PC software, automatic transfer switch control, suitable for use on rental gensets with Hi/Lo line sensing or Single or three phase sensing override, SAE J1939 Engine ECU communications, multilingual capability, remote communications to the RDP-110 Remote Annunciator, 16 programmable contact inputs, 15 contact outputs (3- 30Adc and 12 programmable 2 Adc), UL recognized, CSA certified, CE approved, HALT (Highly Accelerated Life Tests) tested, IP 54 Front Panel rating with integrated gasket, NFPA110 Level Compatible.

Included Accessories: Analog Meter Package, Four (4) Relay Board- 3 assigned/1 open, High Fuel Level Display, Critical Low Fuel Level Shutdown. Mod Bus Communication

ANNUNCIATOR: RDP-110 Flush Mounted Annunciator

COOLING SYSTEM: Unit Mounted Radiator. 50 Deg C Cooling System.

CIRCUIT BREAKER: 1200 AMP 120/208V Three Phase - Mounted and Wired in a NEMA 1 Enclosure (Qty: 1)

Included Accessories: Shunt Trip

BATTERY: Lead Acid Battery 1050 CCA @ 0 F

Included Accessories: Unit Mounted Steel Rack (Per Battery)

BLOCK HEATER: Standard @ 20 deg F@ 4000 Watts, 208V 1 Phase

Included Accessories: Heater wired to a Terminal and Isolation Valves (2)

VIBRATION ISOLATION: Seismic Restraints

BATTERY CHARGER: Micro Genius (24 Volt, 10 Amps)

Included Accessories: Mounted- AC & DC Wired

MUFFLER: Critical Grade Silencer.

Included Accessories: Open Unit Installation Kit. Wall Thimble

FREESTANDING DAY TANK: 60 Useable Gallon Capacity - For OPU. Double Wall/ UL 142 Listed. FDEP Approved.

Included Accessories: Tank Dimensions: 36"H x 30"W x 36"L 700Lbs

Stewart & Stevenson FDDA LLC

4141 S.W. 30th Avenue,

Fort Lauderdale, FL 33312

Phone: 954-327-4440

Authorized Florida Distributor of:





- Double Wall Secondary Containment
- 1/2" Supply/Return Dip Tube Package (2" NPT)
- Basin Drain, 1/2" NPT
- Rochester Fuel Level Gauge (2"NPT, Spiral)
- Locking Manual Fill Cap (2" NPT)
- Standard Vent Cap (2" NPT)
- 2 x Emergency Vent (3" NPT)
- 4 x Flush Mount Lifting Plate (Minimum of 4)
- Paint Color Gloss Black (9638)
- FDEP Fuel in Basin Alarm Contact (2" NPT, Top Mounted) EQ817
- 1 Note Tank EQ 567 List all EQ numbers on tank dwgs
- Single Pump System
- Series 400 Controller for Single w/Reverse Pump & Motor
- 2 GPM Pump, 1/4" Ports, 1/3HP Motor, 115/230VAC
- 2 x Additional 1/2" Dip Tube (2" NPT)
- Custom High 90% /Low 50% , Pump On 60% /Off 80% (2" NPT) Custom Float Levels and Height EQ 817
- Fuel Strainer, 1/2" (Wye Style) Mounted on Supply pump
- Solenoid Valve, 1/2" NPT, 120VAC, NC Mounted on Supply pump
- Reverse Pumping System
- 4 GPM Pump, 3/8" Ports, 1/3HP Motor, 115/230VAC
- Spring Check Valve, 1/2" NPT
- FPI Critical High EQ 817
- Relay for Critical High Shutdown
- Spiral Twinsite Adapter #5639S02543

AUTOMATIC TRANSFER SWITCH: ASCO 300 SERIES: Poles: 3 - Amps: 1200 (Qty: 1)
CAT#: H03ATS31200CGXC,11BE,18RX

Included Accessories: Voltage – 120/208v, Engine Exerciser, NEMA 1 Enclosure. Neutral Configuration: Solid (A).
Withstand and closing rating @ 480v: 200,000 (With Current Limiting Fuses), 65,000 (Specific Breaker)
No. of Cables & Lug Size: 4, 1/0 AWG to 600 MCM

- 11BE: Adds the following features to the Group G controller: (1) Serial RS-485 Modbus Communications (2) Multi-Schedule Engine Exerciser (3) a 300 Entry Event Log and (4) a common alarm output function. When applied on 3-phase systems it also enables: (1) 3-Phase Emergency Source VLL sensing (2) Phase Rotation Monitoring (3) Emergency Source VLL Unbalance Monitoring.
- 18RX: REX (Relay Expansion Module) with Normal and Emergency available output contacts (18B & 18G)
- 31Z: Load disconnect contacts, with TD which operate before/after transfer

MISCELLANEOUS:

- Three (3) O & M Manuals
- E Stop Break Glass Station
- FDEP Package
- Fuel Water Separator
- Paint - Ansi Grey
- Testing – Standard Factory Test
- Start Up NFPA 110 and 4 Hr. 350KW Load Bank Test at the jobsite

***** End Scope of Work *****

NET PRICE, F.O.B. JOBSITE..... \$ 87,357.00 + taxes.

CLARIFICATIONS:

- *FDDA is providing transfer switch(es) with time based short circuit ratings to coordinate with breakers upstream with instantaneous trip settings only. If coordination study (required by others) requires transfer switches to coordinate with breakers with short time settings please contact FDDA for price adder.*
- Five (5) Year / 3000 Hour Comprehensive Extended Standby Limited Warranty.
- Quote includes items listed above only.
- Terms: Net 30 pending approval

GENERAL EXCLUSIONS and EXCEPTIONS (unless specifically noted above):

General requirements or conditions or specification sections not list above; plans and/or drawings not listed above; buyer reference to local, state, or federal government requirements; hurricane/missile impact rated and/or compliance with Florida Building Code for generator enclosure; Florida DBPR insignia

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and/or professional engineering wind-load rating calculations for generator enclosure; EPA Tier 4i or 4 Final engine; dual-fuel and/or bi-fuel and/or bio-fuel engine; power systems or selective coordination study; arc energy reduction means; transfer switch coordination with breakers with short time settings; transfer switch oversized neutral, heater, or battery charger; transfer switch manual switch operation underload; programmed or delayed neutral transition on transfer switch; transfer switch remote annunciator; bypass/isolation transfer switch; IBC or seismic compliance and/or calculations; equipment performance beyond proposed manufacturer's design; any testing other than load bank testing (emissions, noise, harmonics, etc.); exhaust pipe, roof thimble or wall thimble; any warranty and/or guarantee other than the original equipment manufacturer's warranty and/or FDDA's warranty attached hereto; warranty commencement from date of substantial completion; consequential or liquidated damages. any test equipment other than load bank (oscilloscope, camera, analyzer, etc.); NETA or Independent Testing Agency testing; ground fault or infrared scanning testing; anchoring calculation and/or anchors; equipment and systems installation; equipment offloading, rigging, storage & insurance; general, civil, plumbing, mechanical, and electrical work including materials; engineering and any type of permitting; fuel or equipment rental; remote fuel fill port; fuel tank vacuum or pressure testing; equipment short or long term preservation

TERMS AND CONDITIONS OF PROPOSAL:

1. Proposal includes item listed above only. Proposal is subject to corrections for any errors and omissions.
2. Proposal valid for 30 days, subject to change
3. STEWART & STEVENSON FDDA LLC GENERAL TERMS & CONDITIONS OF SALE (DOC# EG-P-540.4) AND MANUFACTURER'S WARRANTY ATTACHED HERETO OFFER ARE PART OF THIS PROPOSAL AND CONSTITUTE THE ENTIRE AGREEMENT BETWEEN BUYER AND FDDA.
4. TECHNICAL DATA ("SUBMITTALS") PROVIDED BY FDDA DOES NOT CONSTITUTE AN AGREEMENT TO ANY PURCHASE ORDER AND/OR TERMS AND CONDITIONS FROM BUYER.
5. ACCEPTANCE OF PROPOSAL BY BUYER IS SUBJECT TO FINAL APPROVAL AND ACKNOWLEDGEMENT BY FDDA

FDDA appreciates the opportunity of proposing the above scope of work and trust we may be favored with your most valued business.

Respectfully,

Nora Gallardo EE/ Area Manager/ Cell: 954.288.6408

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