

INVITATION TO BID

August 10, 2022

Dear Vendor,

Enclosed you will find a bid package for the installation of a **200kW Pad Mounted Generator and 800A Bypass Isolation Transfer Switch Replacement Project** for the City of Seaford Volunteer Fire Department located at 302 E. King Street. All pertinent information is contained within.

The bid opening will be held at 2:00 p.m., on Thursday September 8, 2022, inside the Council Chambers at City Hall, 414 High Street, Seaford, DE.

Should you need clarification on any item, please contact me at canderson@seafordde.com or 302-629-9173.

Thank you for reviewing this information and participating in our bidding process.

Sincerely,
City of Seaford

Charles Anderson
City Manager

Enclosure

CITY OF SEAFORD
BID NOTICE

**200kW PAD MOUNTED GENERATOR AND 800A BYPASS ISOLATION
AUTOMATIC TRANSFER SWITCH REPLACEMENT PROJECT**

Sealed bids will be received by the City Manager of the City of Seaford, 414 High Street, Seaford, DE 19973, until 2:00 p.m., prevailing time on Thursday, September 8, 2022, for the replacement of a “**200kW Pad Mounted Generator and 800A Bypass Isolation Automatic Transfer Switch**” and all other related ancillary items. The bid will be opened in the City Hall Council Chambers and read aloud at this time. The City Manager and staff will then evaluate them for compliance.

The bids may be presented to the Mayor and Council at their regular meeting on September 27, 2022, at 7:00 p.m., in the City Hall Council Chambers, 414 High Street. They may be awarded at this time. The Mayor and Council reserve the right to reject any and all bids.

Bids must be submitted in a sealed envelope, addressed ATTN: Charles Anderson, City Manager, City of Seaford, P.O. Box 1100, Seaford, DE 19973. The outside of the envelope must be marked “**Attn: City Manager, 200kW Pad Mounted Generator and 800A Isolation Bypass Automatic Transfer Switch**” and the bidder’s name and address shall be shown thereon. All proposals must be made on the bid form provided in the specifications. All proposals must conform to the bid documents. Any exceptions will be evaluated for suitability and acceptance is at the sole discretion of the owner.

Complete specifications and contract documents will be available at the City of Seaford, 414 High Street, Seaford, Delaware 19973. Copies may be obtained by calling Ashley Heinicke, City Clerk at 302-629-9173.

No bids may be withdrawn after the scheduled time from the receipt of bids for a period of thirty days. The City of Seaford reserves the right to reject any and all bids and to waive any or all informalities in any bid or bids.

City of Seaford
Charles Anderson
City Manager

INFORMATION FOR BIDDERS

BIDS will be received by the City of Seaford (herein called the “Owner”) at the office of the City Manager, City Hall, 414 High Street, Seaford, Delaware until 2:00 p.m., prevailing time, on Thursday September 8, 2022, and then publicly opened in the City Council Chambers and read aloud.

BIDDERS are advised that the bid is for providing a replacement 200kW Pad Mounted Generator and 800A bypass isolation automatic transfer switch for the City of Seaford Fire Department at 302 E. King Street, Seaford, DE 19973. The new equipment will provide emergency power capabilities for the existing building electrical loads connected to the existing 200kW generator and transfer switch. The new equipment will replace an existing 200kW pad mounted generator and transfer switch at the location. All applicable destination, freight, installation, materials (to include RGS conduit, fittings, supports copper wire and other incidental items weather listed or not), equipment, manpower, connection of existing equipment or other applicable charges shall be included in the bid price provided. The intent is to contract with one firm to complete the entire project. Upon completion the Contractor shall test the equipment (new and existing) for functioning in every way and final payment will not be made to the contractor until all portions are acceptable. The City will witness the testing and verify acceptability.

Each BID must be submitted in a **sealed envelope**, addressed to the City Manager, City of Seaford, City Hall, 414 High Street, P.O. Box 1100, Seaford, DE 19973. Each sealed envelope containing a bid must be **plainly marked on the outside as “Attn: City Manager, 200kW Pad Mounted Generator and 800A Bypass Isolation Automatic Transfer Switch Replacement” and the envelope should bear on the outside the name of the BIDDER and their address.** If forwarded by mail, the sealed envelope containing the BID must be enclosed in another envelope addressed to the OWNER. Any BID received after that time and date specified shall not be considered.

All BIDS must be made on the required BID proposal form. All blank spaces for BID prices must be filled in, in ink, or type written, and the BID form must be fully completed and executed when submitted. One copy of the BID form is required. BIDS and/or alternate bids submitted by FAX or email will not be accepted.

The OWNER may waive any informalities or minor defects or reject any and all BIDS. Any BID may be withdrawn prior to the above scheduled time for the opening of the BIDS or authorized postponement thereof. No BIDDER may withdraw a BID within thirty (30) days after the actual date of the opening thereof.

The Contractor awarded the bid will commence the work required by the CONTRACT DOCUMENTS after the NOTICE TO PROCEED and will **complete the entire project within one hundred fifty (150) calendar days. The contractor will have one hundred twenty (120) calendar days to secure materials and thirty (30) calendar days after receipt of all materials and equipment to complete the field work**, unless the period

for execution is extended in writing by the City Manager. No work will take place on Sundays. The Contractor will be charged **liquidated damages in the amount of \$100 per day** if the WORK extends past the **one hundred fifty (150) calendar days which includes one hundred twenty (120) calendar days to secure materials and thirty (30) calendar days after receipt of all materials and equipment to complete the field work** limits or after the agreed upon extension date.

BIDDERS must satisfy themselves of the accuracy of the required work in the BID documents by a review of the CONTRACT DOCUMENTS. After BIDS have been submitted, the BIDDER shall not assert that there was a misunderstanding concerning the location, use of property or conditions outlined in the CONTRACT DOCUMENTS.

A pre-bid meeting will be held August 25, 2022 in the Council Chambers of City Hall 414 High Street Seaford, DE 19973. The pre-bid meeting will be held at 9:00 a.m. The intent of the meeting will be to give potential bidders the opportunity to ask questions or gain additional clarification regarding the bid documents and the proposed project.

Bidder participation is strongly encouraged. The OWNER will provide a tour of the facility immediately after the pre-bid meeting.

Information obtained from an officer, agent or employee of the OWNER or any other person shall not affect the risks or obligations assumed by the CONTRACTOR or relieve them from fulfilling any of the conditions of the contract.

The contractor shall submit a written certificate with each progress payment request that states he has paid his labor, vendors, suppliers, and subcontractors in full, less applicable retainage of 5%, for the period covered by his previous payment request. The Contractor shall provide the OWNER proof of release of liens and all other required closeout documentation prior to the OWNER issuing the final payment for the project

The OWNER may make such investigation as they deem necessary to determine the ability of the BIDDER to provide the necessary materials and/or labor and equipment to carry out the work and the BIDDER shall furnish to the OWNER all such information for this purpose as the OWNER may request. The OWNER reserves the right to reject any BID if the evidence submitted by, or investigations of, such BIDDER fails to satisfy the OWNER that such BIDDER is properly qualified to carry out the obligations of the Agreement. A conditional or qualified BID may be reason to disqualify your bid.

Award may be made to the lowest, responsible BIDDER. The Mayor and Council reserve the right to reject any and all bids. The bids may be presented to the Mayor and Council at their Regular Meeting on September 27, 2022, at 7:00 p.m., at City Hall, 414 High Street, Seaford, DE.

The successful bidder must also provide an insurance certificate prior to the commencement of work. Comprehensive Liability, Bodily Injury and Property Damage, and Workmen's Compensation will be required in the amounts listed herein. The contractor shall secure and maintain at his own expense, during the contract term a

commercial general liability insurance which insures against claims for bodily injury, property damage, personal injury and advertising injury arising out of or in connection with, any operations or work under this contract whether such operations are by the contractor, its employees, or subcontractors or their employees. The policy shall provide minimum limits of liability as follows:

- \$1,000,000.00 combined single limit – each occurrence
- \$2,000,000.00 combined single limit – general aggregate
- \$2,000,000.00 combined single limit – products/completed operations aggregate
- \$1,000,000.00 Business auto liability – combined single limit
- \$500,000.00 Workers compensation – each accident, each employee
- \$3,000,000.00 Umbrella excess liability insurance.

All insurance shall name the owner; it's appointed and elected officials, officers, servants, agents and employees as insured. The commercial general liability policy shall afford coverage for explosion, collapse or underground hazards, contractual liability and liability arising from independent contractors. Products and completed operations insurance shall be maintained for two years after completion of the project.

The contractor shall submit proposed insurance instruments to the City Manager prior to execution for approval.

All applicable laws, ordinances and the rules and regulations of all authorities having jurisdiction over the WORK shall apply to the contract throughout. The final installation must receive an electrical inspection by an inspection agency recognized by the Delaware State Fire Marshal.

Each BIDDER is responsible for reading and being thoroughly familiar with the CONTRACT DOCUMENTS. The failure of the BIDDER to do any of the foregoing shall in no way relieve any BIDDER from any obligation respective to their BID.

THE MAYOR AND COUNCIL RESERVE THE RIGHT TO REJECT ANY AND ALL BIDS.

-END OF DOCUMENT-

CITY OF SEAFORD
200kW PAD MOUNTED GENERATOR AND 800A BYPASS
ISOLATION AUTOMATIC TRANSFER SWITCH REPLACEMENT

DETAILED SPECIFICATIONS

INTENT AND PURPOSE:

The City of Seaford is issuing these bid documents for the express purpose of obtaining a contractor that will provide and install a replacement 200kW Pad Mounted Generator and 800A Bypass Isolation Automatic Transfer Switch for the City Fire Department located at 302 E. King Street, Seaford, DE 19973. The new unit will replace an existing 28+/- year old 200kW pad mounted generator and 800A transfer switch serving the location. The intent is to contract with one firm to complete the entire project. Upon completion of the project by the contractor the new emergency generator and transfer switch shall be capable of accommodating all of the existing building's electrical loads currently connected to the existing emergency generation equipment. If an increase in the size of the generator is required to accommodate all building loads, currently connected to the 200kW generator the contractor shall provide the larger generator capacity within the process bid.

Building panel board RTU is not connected to the emergency generator and is not served during emergency bypass. This load shedding condition and panel configuration is to remain after generator replacement.

The contractor shall include all incidental relocations, additions, inspections (by the underwriters) wiring and other related work, whether listed in this specification or not, in his bid price. No additional compensation will be provided by the City beyond the bid price provided by the contractor for work required to provide a fully functioning system upon completion.

This facility is critical to public safety and as such the requirement for standby power 100% of the time is of the highest importance. The contractor shall order his materials and schedule his work in a way that will limit disruption and down time to the facility. The contractor is directed, after the notice of award by the City to order, receive and stage all materials in advance of proceeding with on-site operations.

The Contractor shall relocate and reuse the existing generator, automatic transfer switch and fuel tank and reconnect them in a manner and location to provide emergency backup power while the new generator and transfer switch are installed as part of his base bid. The temporary generator arrangement shall be capable of receiving a remote start signal from the existing transfer switch for the purpose of automatic start in the event of the loss of utility power. The temporary generator shall also be used to limit the outage duration during installation and activation of the new transfer switch and generator. The

Contractor shall provide all temporary power and control wiring as required for the proper functioning of the temporary generator. The Contractor may utilize the existing fuel storage tank for supplying fuel to the temporary generator if desired and properly installed for the purpose. The contractor shall submit a proposed temporary power plan that includes proposed wire size, feed paths and generator location for approval by the owner. Existing vehicular and pedestrian access ways to the facility may not be encumbered by this installation in any way. This shall include vehicular visibility for ingress and egress to all portions of the facility. In addition, dependent upon temporary generator location the contractor may need to accommodate fresh air intakes into the building. The contractor shall indicate how the accommodation of exhaust products from the generator or fumes from the delivery of fuel to the equipment will be addressed and kept from entering the building.

The bid documents request an **add alternate price** for a temporary generator and transfer switch that that the contractor will procure and stage on the site to accomplish temporary power provisions for the facility during the installation of the new equipment. This temporary power arrangement is intended to be an alternative to reusing the existing generator and transfer switch on-site. This pricing is requested to determine the best temporary power solution for the project and the owner will evaluate the best option provided by the contractor that provides the lowest overall cost.

Upon completion of the installation, the contractor shall load test (with a properly sized load bank) the new generator and all of the equipment for functioning in every way (the City shall witness this testing) and final payment will not be made to the contractor until all portions are acceptable. The final installation must receive an electrical inspection. The contractor shall be required to submit a proposed testing schedule that includes manufacturer's minimum performance limits as part of the submittal process for review and approval by the owner. Refer to Section 2.2,

ACCEPTANCE TESTING:

The following shall indicate minimum requirements, including all components, accessories, safety features and installation requirements, necessary to make a complete operating installation, whether identified herein or not. No components normally offered as standard items may be deleted without written approval from the City of Seaford.

The contractor shall prepare and submit to the owner a partial site plan to show the intended location of the new equipment and several known utility conflicts in the general area of the installation. The new equipment must remain within the existing fenced enclosure area at the northeast corner of the building that houses the existing generator.

The contractor shall call Miss Utility prior to any and all site excavations and shall modify the location of this equipment to suit the field conditions.

1.0 POWER GENERATION SYSTEM

A. Requirements:

1. Kohler Generator Set, sized as required, or approved Equal.
2. Power Factor: 0.8
4. Hertz: 60 at 1800 revolutions per minute.
5. Temperature Rise: 130 degrees C (standby)
6. Deliver full load amps with up to 5% total harmonic distortion.
7. Generator Output Voltage 120/208V, 3-Phase,
9. Shall comply with NEMA MG1, applicable IEEE and ANSI standards for temperature rise and motor starting.

1.1 ENGINE

A. General Requirements:

1. Fuel: Diesel.
2. Cooling: Liquid Cooled.
3. Engine Speed: 1800 revolutions per minute.
4. Governor: Electronic.
5. Emissions: Unit shall be manufacturer certified as compliant with Delaware Code, Title 7, Regulation 1144 – Control of Stationary Generator Emissions. Vendor shall include documentation of such certification in bid package.

B. Provide the following accessories:

1. Fuel filter.
2. Sound Enclosure
3. Weather Enclosure
4. Battery charger with alarms
5. Line circuit breaker (NEMA1 enclosure)
6. Gages:
 - a. Fuel pressure
 - b. Water temperature
 - c. Lube oil pressure

C. Starting:

1. Quantity and voltage of starter motors in accordance with manufacturer's instructions.
2. Selector switch with start button on control panel.
3. Cranking motor:
 - a. Heavy duty that automatically engages and releases from flywheel without binding.

D. Safety Devices:

1. Engine shutdown on the following (limits selected by manufacturer):
 - a. High Coolant temp
 - b. Low oil pressure
 - c. Over-speed
 - d. Engine over-crank

E. Air Intake:

1. Heavy-duty
2. Engine mounted with replaceable dry-filter element
3. Air Restrictor Indicator

F. Oil Maintenance:

1. Provide drain plug on exterior of enclosure

1.2 COOLING SYSTEM

A. Engine-Mounted Radiator:

1. Closed loop system

B. Radiator Components:

1. Glycol based coolant
2. Blower fan:
 - a. Size to maintain safe engine temperature in ambient temperature
3. Airflow restrictions:
 - a. 0.5 inches of water (maximum)
4. Ambient Air Capability: 113 degrees F
5. Coolant hose:
 - a. Flexible assembly
 - i. Inside: Nonporous rubber
 - ii. Outside: Aging, ultraviolet, and abrasion resistant fabric
 - b. Non-collapsible under vacuum
 - c. Maximum working Pressure: 50 psig
 - d. End fittings: Flanges or steel pipe nipples with clamps to suit piping and equipment connections.

1.3 FUEL SYSTEM

A. Fuel Service

1. The contractor shall be responsible for connecting the proposed generator to the existing diesel fuel tank on-site. The contractor shall within the prices bid install all necessary piping and/or other items as required to service the proposed generator equipment.

1.4 EXHAUST SYSTEM

A. Silencer:

1. Location:
 - a. Internal to enclosure
 - i. Stainless steel (as required)
 - b. External to enclosure
 - i. Stainless steel

2. Critical Type
 - a. 25dB at 500Hz.
3. Muffler companion flanges
4. Flexible stainless steel exhaust fitting
5. Suitable for horizontal orientation
6. Size in accordance with engine manufacturer's instructions

B. Piping:

1. Piping after the silencer shall be routed out the top of the enclosure and orientated away from the building.

1.5 BATTERY

A. Battery Requirements:

1. Type: Lead Acid storage
2. Heavy-duty as recommended by the manufacture.
3. Capacity: Two 950 CCA @ 0°F (minimum) or as recommended by engine manufacturer.
4. Match battery system to starter system.
5. Include necessary cables and clamps.
 - a. 12V
6. Disconnect switch

B. Battery Trays:

1. Plastic coated metal construction to contain spillage of electrolyte.

C. Alternator:

1. Shall be compatible with battery system provided with generation system.

1.6 CONTROL PANEL

A. Digital Generator Controller:

1. The digital generator controller (Kohler Decision-Maker 3000 Digital Generator Controller or approved equal) shall provide advanced control features, system monitoring, diagnostics and remote monitoring capabilities.
2. A digital display and menu control shall provide intuitive local access to data and user controlled parameters.
3. The controller shall accept a dry contact from transfer switch for remote run signal.
4. Located within the generator enclosure and accessible for maintenance.

B. The Digital Generator Controller shall provide the following features and capabilities:

1. Run / Off-Reset / Auto Control Switch
2. E-Stop Control
3. Microprocessor based
4. Recessed mounted
5. Digital (LCD) Display of the following parameters:

- a. ECM diagnostic codes
- b. 20 Event Fault Log
- c. Fuel Pressure
- d. AC Frequency
- e. AC Voltage: Each phase, L-L, L-G
- f. AC Amperes: Each phase
- g. AC Power: 3 phase KVA, KW
- h. Run Time – total hours
- i. Loaded Time – total hours
- j. Total Energy - kWh
- k. Battery Voltage
- l. Coolant Temperature
- m. Oil Pressure
- n. Engine Speed
- o. Alarms and shutdowns

6. Alarm Annunciation:

- a. Status:
 - i. Running / Off Status
 - ii. System Ready
 - iii. System Warning
 - iv. System Shutdown
 - v. Programming Mode
 - vi. Generator Switch Not In Auto
- b. Pre-Alarms:
 - i. High Engine Temperature
 - ii. Low Oil Pressure
- c. Alarms:
 - i. High Engine Temperature
 - ii. Low Oil Pressure
 - iii. Low Fuel Pressure
 - iv. Engine Over-speed
 - v. Engine Over-crank
 - vi. Emergency Stop
 - vii. Auxiliary Fault
 - viii. Battery Charger Fault
 - ix. High Battery Voltage
 - x. Low Battery Voltage
 - xi. Air Damper
- d. Switches:
 - i. Lamp Test
 - ii. Alarm Silence / Reset
- e. Alarm Horn

7. Integral voltage regulation with $\pm 0.5\%$ no-load to full-load regulation with 3 phase sensing.

8. Integral field breaker for generator protection

9. Generator Protective functions:
 - a. Generator Overload
 - b. Loss of AC Sensing Voltage
 - c. Over/Under Voltage (each phase)
 - d. Over/Under Frequency
10. Remote Annunciator Panel:
 - a. Mounted in communications center of existing facility as shown on the project drawings.
 - b. The contractor shall install a new remote annunciator panel.
 - c. The remote annunciator panel shall provide at a minimum the following audio and visual alarm indications and control functions:
 - i. All engine shutdown alarms
 - ii. Common Alarm
 - iii. Battery Charger Fault/Low Battery Voltage
 - iv. AUTO/OFF/RUN status
 - v. Horn silence switch
 - vi. Engine running
 - vii. System Ready/Normal/Emergency
11. Provide phenolic labels (white lettering on black label)

1.7 GENERATOR SYSTEM ENCLOSURE

A. Requirements:

1. Housing:
 - a. Factory Unit
 - b. Suitable for installation in an exterior location.
 - c. Weatherproof
 - d. Sound Attenuating:
 - i. Generation System: 72 dBA @ 7 meters
 - e. Lockable Doors
2. Material:
 - a. Aluminum and 316 Stainless Steel (as required).
3. Wind Rating: 150 miles per hour (minimum)
4. Exposure: C
5. Importance Factor: 1.15
6. Interlocking Standing Seam Design capable of supporting 75 pounds per square foot.
7. Stainless Steel Hardware and hinges.
8. Doors
 - a. Hinge type with safety stops in the open position.

1.8 MOUNTING

A. Requirements:

The generator set and enclosure shall be mounted on a new structural concrete base a minimum of 4' above finish grade, 2' minimum turndown thickness. The dimensions of the pad (length and width and thickness) shall be as required by the manufacturer plus

additional clearances on all sides of the finished equipment as necessary to accommodate the installed unit with 6" excess on all sides from the generator enclosure to the exterior edge of the new pad. All edges shall be chamfered. In addition, the concrete pad shall rest on a stone cushion of 6" GABC. Reinforcement and concrete specifications shall be as required by the manufacture. The location and installation of the generator equipment shall permit the proper function of all access doors to the equipment. Contractor to submit concrete pad detail for City review prior to construction.

The contractor shall re-grade the area around the new generator to provide positive drainage away from the building and generator. No slopes of the regarded area shall exceed 5% slope. The installation of retaining walls and/or curbs shall be implemented by the contractor to provide the necessary soil transitions.

B. Vibration Isolators:

- a. Suitable spring-type shall be installed.

2.0 TRANSFER SWITCH

A. Requirements:

1. 800A Automatic Bypass-Isolation Transfer Switch with all standard features included.
2. Provide MPAC 1500 Controller or approved equal.
3. Enclosure: Exterior wet location approved mounted on an appropriately sized concrete pad.
4. Open transition operating mode with bypass-isolation capabilities
5. Voltage and Current Ratings: 208/120V GY, 800A continuous
6. The contractor shall provide properly sized new copper conductors as necessary between the new generator and new transfer switch and the existing interior electrical equipment. **All conductors used for this project shall be properly sized copper (Cu).**
7. Provide (3) three paper copies and (1) one electronic copy of all Operation and Maintenance manuals.
8. The contractor may use existing conduit as approved by the owner for power wiring and control wiring between the new generator installation and the new transfer switch installation. All new conduit installations, if required, shall be Schedule 40 PVC. Any new penetrations of the building must be core bored and sealed watertight by the contractor.

9. Provide (1) properly sized Schedule 40 PVC underground conduit from the generator location into the building as required for installation of the new control wiring for the remote annunciator panel.

10. The new 800A bypass isolation automatic transfer switch shall be installed in the same location as the existing transfer switch.

11. The contractor shall install properly sized copper control wiring from the generator location to the new interior remote annunciator location.

12. The contractor shall install the new 800A bypass isolation Automatic Transfer Switch (ATS) to serve the existing facility and reconfigure all of the existing panels, wiring, troughs, overcurrent protection devices, main breakers and other related ancillary equipment (whether listed or not) to accommodate all of the existing buildings electrical loads currently connected to the emergency generator (excluding panel RTU) and provide a completely functioning system. The contractor shall set the control system of the generator and ATS to exercise the generator under full building load weekly. Time of exercising shall be provided by the Owner.

13. The contractor shall include in his bid pricing provisions for the installation of all of the necessary grounding and bonding components necessary for the new, existing and reconfigured equipment, conduit and other items (listed or not). This shall include the installation of additional sub-grounding bus bars, conductors and other items as necessary. All grounding and bonding shall meet the current NEC and IEEE standards.

14. Contractor shall coordinate all work with the Owner such that interruption of electric service to the Seaford Volunteer Fire Department is minimized to the greatest extent possible. The contractor is hereby notified that the final cut-over to the new equipment may/will require an accommodation for fire and EMS services to the Seaford Fire District and will need to be scheduled with the owner prior to execution. No additional compensation for this work shall be given to the contractors beyond the bid pricing.

2.1 REMOVAL AND DISPOSAL

1. The contractor will be responsible for the removal and disposal of all debris prior to the completion of the project. This shall include the existing generator, the existing transfer switch, existing concrete generator pad, excavation spoils, excess wire, packing material and all other miscellaneous items related to the project from the facility. Prior to removing the equipment all of the hazardous fluids and materials (diesel fuel, antifreeze, oil and other items) shall be properly removed and disposed of by the contractor. He shall be responsible for disposing all debris at a DSWA approved facility or properly recycling the material. The City shall be provided weight tickets denoting the proper disposal or recycling of the above-described materials prior to final payment to the contractor.

2. The contractor shall also restore the facility grounds, pavement and building to a “before construction condition” prior to the completion of the project and final acceptance by the City. The area of work near and around the generator shall be filled to rough grade to provide positive drainage and topped with a layer of #57 stone 3” deep over all disturbed areas upon the completion of construction.

3. The contractor shall be responsible for all necessary dust and debris control during his operations. He is hereby notified that the areas of work contain sensitive equipment. The contractor is required to provide dust protection, plastic walls, temporary partitions, or other measures that will adequately protect all equipment in the areas (or adjacent to) of work. This requirement is to include proper exhaust in the areas of work.

2.2 BONDING AND GROUNDING

1. The contractor shall bond all metallic objects and equipment to the master ground bus or sub system ground bus in the existing facility with properly sized copper conductors. All bonding and grounding shall be in accordance with the applicable NEC standards.

2.3 ACCEPTANCE TESTING

1. The City shall require the contractor to operate the equipment under full load (with an appropriately sized load bank) for a four-hour period minimum prior to acceptance. The equipment shall start, transfer, run and maintain the maximum electrical loads for the specified period without failure or undue disruption. The contractor shall also demonstrate proper start up and transfer by simulating loss of Normal Source. The contractor will schedule, operate and conduct the test for the City personnel in attendance to witness the test.
2. The contractor shall provide all necessary fuel for testing purposes.

2.4 WARRANTY

The contractor shall provide a factory five-year comprehensive extended warranty to cover all installed systems and components within the prices bid.

2.5 SPARE PARTS

The contractor shall provide the Owner with all spare parts necessary to preform the first-year preventative maintenance service on the new equipment, as outlined by the equipment manufactures standard recommendations. Items such as oil, air filters fuel filters, belts and coolant are examples; refer to manufactures recommendations for a complete listing.

2.6 ASBUILTS

The contractor shall provide the Owner a set of as-builts at the end of the project detailing wire sizing, conduit sizing material and location, fuel line locations, and all other pertinent details of the installation.

BID PROPOSAL
CITY OF SEAFORD FIRE DEPARTMENT
200kW PAD MOUNTED GENERATOR AND 800A BYPASS ISOLATION
AUTOMATIC TRANSFER SWITCH REPLACEMENT PROJECT

To: City Manager
City Hall
414 High St.
Seaford, DE 19973

Gentlemen,

Proposal of _____ (hereinafter called "Bidder"),
organized and existing under the laws of the State of Delaware doing business as
_____ (insert "a corporation" "partnership", or "an
individual" as applicable) to the City of Seaford, Delaware (hereinafter called "Owner.")

In compliance with your Advertisement for Bids, BIDDER hereby proposes to supply all materials and labor necessary for the **200kW Pad Mounted Generator and 800A Bypass Isolation Automatic Transfer Switch Replacement Project** in strict accordance with the CONTRACT DOCUMENTS, within 120 calendar days to secure materials and 30 calendar days for installation (after notice of award and equipment and material delivery, respectively), and at the prices stated below unless the period for contract execution is extended in writing by the City Manager. No work will take place on Sundays. The Contractor will be charged **liquidated damages in the amount of \$100 per day** if the WORK extends past the **one hundred twenty (120) calendar days to secure materials and thirty (30) calendar days after receipt of all materials and equipment to complete the field work** or after the agreed upon extension date.

By submission of this BID, each BIDDER certified, and in the case of a joint BID each party thereto certified as to his own organization, that this BID has been arrived at independently, without consultation, communications, or agreement as to any matter relating to this BID, with any other BIDDER or with any competitor.

Furnish & install all materials and labor for the prices stated below:

Generator and transfer switch replacement is to be a complete turn-key package installed at 302 E. king Street, Seaford, DE 19973.

Manufacturer _____

Year _____

Total Cost: \$ _____

Total Cost provided shall include the reuse of the existing equipment to provide temporary power to the facility during installation project.

Estimated Delivery Time for Equipment: _____

Add alternate #1 - temporary generator and transfer switch \$ _____

Alternate #1 shall include the pricing for the contractor to provide temporary power to the facility without using the existing generator, fuel tank and transfer switch during installation project.

A complete list of specifications for all components of the generator and transfer switch being bid shall be submitted with all bid proposals. All deviations from this bid specification MUST be submitted, in writing, with this bid proposal. Failure to bid all specifications may disqualify your bid.

Bidder's Name (Please print or type)

Address

Signature of Officer of Company

Name of Officer (Please print or type)

Date

Cell Phone #

Email Address