

**ESCAMBIA COUNTY
FLORIDA**

INVITATION TO BIDDERS

Blower / Flare Station, Perdido Landfill

SPECIFICATION NUMBER PD 09-10.028

BIDS WILL BE RECEIVED UNTIL: 2:00 p.m., CDT March 16, 2010

**Office of Purchasing, Room 11.101
213 Palafox Place, Pensacola, FL 32502
Matt Langley Bell III Building
Post Office Box 1591
Pensacola, FL 32591-1591**

Board of County Commissioners

Grover Robinson IV, Chairman
Kevin W. White, Vice Chairman
Wilson Robertson
Gene M. Valentino
Marie Young
From:

Claudia Simmons, CPPO
Purchasing Manager

All requests for assistance should be made in writing when possible. Responses will be provided to all known submitters in writing. No verbal responses will be provided.

Assistance:

Paul R. Nobles, CPPO, CPPB, FCN, FCPM, FCCM
Purchasing Coordinator
Office of Purchasing
Matt Langley Bell III Building
213 Palafox Place
2nd Floor, Room 11.101
Pensacola, FL 32502
T: 850.595.4918
F: 850.595.4805
e-mail: paul_nobles@co.escambia.fl.us

NOTICE

It is the specific legislative intent of the Board of County Commissioners that NO CONTRACT under this solicitation shall be formed between Escambia County and the awardee vendor until such time as the contract is executed by the last party to the transaction.

SPECIAL ACCOMMODATIONS:

Any person requiring special accommodations to attend or participate, pursuant to the Americans with Disabilities Act, should call the Office of Purchasing, (850) 595-4980 at least five (5) working days prior to the solicitation opening. If you are hearing or speech impaired, please contact the Office of Purchasing at (850) 595-4684 (TTY).

ESCAMBIA COUNTY FLORIDA
INVITATION TO BID
BIDDER'S CHECKLIST
Blower / Flare Station, Perdido Landfill
Specification PD 09-10.028

HOW TO SUBMIT YOUR BID:

Please review this document carefully. Offers that are accepted by the county are binding contracts. **Incomplete bids are not acceptable.** All documents and submittals shall be received by the Office of Purchasing on or before date and hour for specified for receipt. Late bids will be returned unopened.

* Documents submitted with Bids are to be on the forms provided in the Invitation to Bid and photocopies of other required documents

THE FOLLOWING DOCUMENTS SHALL BE RETURNED WITH BID:

- SOLICITATION, OFFER AND BID FORM (IN DUPLICATE WITH ORIGINAL SIGNATURE)
- BID SURETY (BOND, CHECK, ETC.)

THE FOLLOWING DOCUMENTS SHOULD BE RETURNED WITH BID:

- SWORN STATEMENT PURSUANT TO SECTION 287.133 (3)(A), FLORIDA STATUTES, ON ENTITY CRIMES
- DRUG-FREE WORKPLACE FORM
- INFORMATION SHEET FOR TRANSACTIONS AND CONVEYANCES CORPORATE IDENTIFICATION
- CERTIFICATE OF AUTHORITY TO DO BUSINESS FROM THE STATE OF FLORIDA (FLORIDA DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION)
- WRITTEN OPINION OF AN ATTORNEY FROM A FOREIGN STATE AS TO BID PREFERENCES IN YOUR STATE (NOT APPLICABLE TO FLORIDA FIRMS)

BEFORE YOU SUBMIT YOUR BID, HAVE YOU:

- PLACED YOUR BID WITH ALL REQUIRED SUBMITTAL ITEMS IN A SEALED ENVELOPE
- CLEARLY MARKED FOR SPECIFICATION NUMBER, PROJECT NAME, NAME OF BIDDER, AND DUE DATE AND TIME OF BID RECEIPT?

HOW TO SUBMIT A NO BID:

IF YOU DO NOT WISH TO BID AT THIS TIME, PLEASE REMOVE THE SOLICITATION, OFFER AND AWARD FORM FROM THE BID SOLICITATION PACKAGE AND ENTER NO BID IN THE "**REASON FOR NO BID**" BLOCK, YOUR COMPANY'S NAME, ADDRESS, SIGNATURE, AND RETURN THE SOLICITATION, OFFER AND AWARD FORM IN A SEALED ENVELOPE. THIS WILL ENSURE YOUR COMPANY'S ACTIVE STATUS IN OUR BIDDER'S LIST.

THIS FORM IS FOR YOUR CONVENIENCE TO ASSIST IN FILLING OUT YOUR BID
ONLY.
DO NOT RETURN WITH YOUR BID

**Blower / Flare Station, Perdido Landfill
Specification PD 09-10.028**

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Forms marked with a (** Double Asterisk) should be returned with Offer.**

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SOLICITATION, OFFER AND BID FORM

**SUBMIT OFFERS TO:
CLAUDIA SIMMONS
Purchasing Manager**

Office of Purchasing, 2nd Floor, Room 11.101
213 Palafox Place, Pensacola, FL 32502
Post Office Box 1591, Pensacola, FL 32597-1591
Phone No: (850)595-4980 Fax No: (850) 595-4805

ESCAMBIA COUNTY FLORIDA

Invitation to Bid

**Header Relocation Construction,
Perdido Landfill**

SOLICITATION #: PD 09-10.028

SOLICITATION

MAILING DATE: **Monday, March 1, 2010**

PRE-BID CONFERENCE: **1:00 p.m., CDT, Wednesday, March 16, 2010**, to be held at Perdido Landfill, Administrative Conference Room, 13009 Beulah Road, Cantonment Florida

OFFERS WILL BE RECEIVED UNTIL: **2:00 p.m., CST, Tuesday, March 16, 2010** and may not be withdrawn within **90** days after such date and time.

POSTING OF SOLICITATION TABULATIONS

Solicitation tabulations with recommended awards will be posted for review by interested parties at the County Office of Purchasing and will remain posted for a period of two (2) business days. Failure to file a protest in writing within two (2) business days after posting of the solicitation tabulation shall constitute a waiver of any protest relating to this solicitation. All protests must be filed with the Office of Purchasing. They will be handled according to the Escambia County Purchasing Ordinance.

OFFER (SHALL BE COMPLETED BY OFFEROR)

FEDERAL EMPLOYER IDENTIFICATION NUMBER OR S.S. NUMBER: _____

TERMS OF PAYMENT: _____

DELIVERY DATE WILL BE _____ DAYS AFTER RECEIPT OF PURCHASE ORDER.

VENDOR NAME: _____

REASON FOR NO OFFER: _____

ADDRESS: _____

CITY, ST. & ZIP: _____

PHONE NO.: (____) _____

TOLL FREE NO. : (____) _____

FAX NO.: (____) _____

BID BOND ATTACHED \$ _____

NAME AND TITLE OF PERSON AUTHORIZED TO SIGN OFFER

(TYPED OR PRINTED)

I certify that this offer is made without prior understanding, agreement, or connection, with any Corporation, firm or person submitting an offer for the same materials, supplies, or equipment, and is in all respects fair and without collusion or fraud. I agree to abide by all conditions of this offer and certify that I am authorized to sign this offer for the offeror and that the offeror is in compliance with all requirements of the solicitation, including but not limited to certification requirements. In submitting an offer to Escambia County Florida, the offeror agrees that if the offer is accepted, the offeror will convey, sell, assign or transfer to Escambia County Florida all rights title and interest in and to all causes of action it may now or hereafter acquire under the Anti-trust laws of the United States and the State of Florida for price fixing relating to the particular commodities or services purchased or acquired by Escambia County Florida. At

**

SIGNATURE OF PERSON AUTHORIZED TO SIGN OFFER

(MANUAL)

**** Failure to execute this Form binding the bidder's offer shall result in this bid being rejected as non-responsive**

In accordance with your "Invitation for Bids" and "Instructions to Bidders" for **Blower / Flare Station, Perdido Landfill, PD 09-10.028** as described and listed in this Invitation for Bids, and subject to all conditions thereof, I, undersigned, hereby propose to provide at the following price:

Item No.	Item	Description	Relevant Specification Sections	Qty	Unit	Bid Price	Make/Model
1	Flare system – Base Unit	Flare, flame arrestor, pilot propane tank, condensate drain pipes, future flare stubout, generation plant stub out, automatic shutoff valve, flare control, ignition system, and all piping on the skid. This option shall be for a 2,200 scfm flare with a nominal turn down ratio of about 10.	Sections 2.01, 2.02, 2.03, 2.04, 2.05, 2.06, 2.07, 2.08, 2.09	1	LS		

Bid Form Continued
PD 09-10.028, Blower / Flare Station, Perdido Landfill

Item No.	Item	Description	Relevant Specification Sections	Qty	Unit	Bid Price	Make/Model
2	Retrofit to flare	All piping and appurtenances (including additional flame arrestors if needed) to enable flare to function at a minimum flow rate of 50 scfm. Alternatively, if the flare can be designed to meet the minimum 50 scfm capacity without any additional cost, leave this item blank and fill in items 1 and 2.	Section 2.01 and others as relevant	1	LS		
3	Automatic control system	Automatic feedback control system to route landfill gas flow to the flare and generation plant as well as deliver a steady vacuum to the well field.	Section 2.10	1	LS		
4	Blower – Base Unit	Blower assemblies, expansion joints, and valves. This option is for two blowers (2,200 scfm and -50 to +20 in wc) connected in parallel with variable frequency drives.	Sections 2.11, 2.12, 2.13	1	LS		
5	Condensate knockout pot	Knockout pot with demister pad	Section 2.14	1	LS		
6	Signage	Per specifications	Section 2.15	1	LS		
7	Spare parts	Per specifications	Section 2.16	1	LS		
8	Instrumentation – Base Unit	Per specification, including one continuous gas analyzer	Section 2.17	1	LS		
9	Data recorder	Per specifications	Section 2.18	1	LS		
10	Skid and instrumentation panel roof	Per specifications	Section 2.19	1	LS		
11	Shipping	Delivery to project location at site across the road from Perdido Landfill		1	LS		
12	Startup Assistance and Training	3 days of startup assistance and training with all expenses included		1	LS		
Base unit to include items 1 through 12					Total Price		

Bid Form Continued
PD 09-10.028, Blower / Flare Station, Perdido Landfill

Item No.	Item	Description	Relevant Specification Sections	Qty	Unit	Bid Price	Make/Model
13	Flare system - Option 1	Flare, flame arrestor, pilot propane tank, condensate drain pipes, generation plant stub out, automatic shutoff valve, flare control, ignition system, and all piping on the skid. This option shall be for a 4,400 scfm flare with a nominal turn down ratio of about 10.	Sections 2.01, 2.02, 2.03, 2.04, 2.06, 2.07, 2.08, 2.09	1	LS		
14	Blower - Option 1	Blower assemblies, expansion joints, and valves. This option is for two blowers (2,200 scfm and -50 to +20 in wc) connected in parallel without variable frequency drives.	Sections 2.11, 2.12, 2.13	1	LS		
15	Blower - Option 2	Blower assemblies, expansion joints, and valves. This option is for one blower (2,200 scfm and -50 to +20 in wc) and a stub out and space for connection of an identical blower in parallel in the future. The installed blower will have a variable frequency drive.	Sections 2.11, 2.12, 2.13	1	LS		
16	Blower - Option 3	Blower assemblies, expansion joints, and valves. This option is for one blower (2,200 scfm and -50 to +20 in wc) and a stub out and space for connection of an identical blower in parallel in the future. The installed blower will not have a variable frequency drive.	Sections 2.11, 2.12, 2.13	1	LS		
17	Instrumentation - Option 2	Per specification, but without the continuous gas analyzer	Section 2.17	1	LS		
18	Preventive Maintenance	1-day of annual preventive maintenance with all expenses included		1	LS		
19	Trouble shooting	Emergency trouble shooting including expenses		1	Day		

**Bid Form Continued
PD 09-10.028, Blower / Flare Station, Perdido Landfill**

(TO BE FILLED IN)

CONTRACTOR REQUIREMENTS

Acknowledgment is hereby made of receipt of the following addenda issued during the bidding period:

Addendum No. _____ Date _____ Addendum No. _____ Date _____

Addendum No. _____ Date _____ Addendum No. _____ Date _____

(PLEASE TYPE INFORMATION BELOW)

Person to contact concerning this bid:

Phone # _____

Toll Free # _____

Fax # _____

E-Mail Address: _____

Person to contact for emergency service:

Phone #: _____

Cell #: _____

Pager #: _____

SECTION 11910

LANDFILL GAS FLARE/BLOWER SKID
PART 1 - GENERAL

1.01 SCOPE OF APPLICATION

- A. Provide all materials, equipment, and labor needed to install the blower/flare skid assemblies and appurtenances in accordance with the Drawings. The blower/flare skid will have a pipe branching off from the discharge end of the blower to the electricity generation plant located about 3,000 feet from the blower/flare skid. The other branch will connect to the flare located on the skid. An automatic feedback control system shall be used to route landfill gas flow to the flare and generation plant as well as deliver a steady vacuum to the well field.
- B. Alternate sizes, models, and concepts for the flare/blower skid are acceptable based on approval by the Engineer and Owner if they meet the performance requirements specified herein.

1.02 REFERENCES (RESERVED)

1.02 SUBMITTALS

1.03

- A. Submit to the Owner's Representative for approval manufacturer's literature, shop drawings, or other information pertaining to the assembly, operation, lubrication, adjustments, and other maintenance and repairs of equipment installed under this Section, together with detailed parts lists, drawings, and/or photographs. The Contractor shall also prepare and submit shop drawings showing the layout, orientation and dimensions of the flare, blower/motor assembly, condensate knockout pot, piping, valves and fittings to be installed. All electrical and mechanical drawings for the flare control system shall be submitted.
- B. Submit blower characteristic curves indicating capacity for flow versus pressure head and efficiency as tested at the factory for approval prior to shipment.
- C. Submit signage layout drawings.
- D. Submit operation and maintenance manual.
- E. Submit all applicable warranty documents.
- F. Submit additional field services rate information for a year.

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PART 2- PRODUCTS

2.01 FLARE

A. A utility flare manufactured by John Zink, LFG Specialties, Perennial Energy, or equivalent approved by the Owner's Representative can be used. The flare shall be designed in accordance with the United States of Environmental Protection Agency (USEPA) established criteria for open flares, 40 CFR 60.18. The flare shall be capable of burning low Btu gas and shall include a burner; automatic pilot ignition; electric igniter; pilot gas automatic valves and pilot gas pressure regulator with display; stack; automatic gas safety shut-off valve; manual shut off valve; high and low pressure switches; control panel; flame arrester; piping and all other necessary appurtenances to have a complete operational system. The flare shall be capable of combusting LFG with the following composition:

1. Btu Content - 300 to 600 Btu/scf
2. LFG Flow Rate – maximum 2,200 scfm (quotes are requested for both a 2,200 scfm flare and a 4,400 scfm flare). Flare shall be capable of handling a minimum flow rate of 55 scfm.
3. Carbon Dioxide - 20 to 45 percent
4. Hydrogen Sulfide - up to 1,500 ppm
5. Moisture Content - saturated
6. LFG Supply Pressure - 1 to 15 in. w.c.

The flare shall have a minimum destruction efficiency of 98%. The emission factors for the flare shall not exceed the following:

1. CO: 0.37 lb/MMbtu or 374 lb/million dscf of methane (using conversion factor of 1012 Btu/scf)
2. NOx: 0.07 lb/MMbtu or 71 lb/million dscf of methane (using conversion factor of 1012 Btu/scf)

B. Stack: The flare stack shall be carbon steel with rust preventive coating, fitted with necessary connections. The portion of the stack exposed to flame and high temperatures shall be stainless steel. The flare shall be designed for 110 mph wind loading.

C. The electrical connections shall be 480 volts, 60 Hz, and 3 phase.

2.02 FLAME ARRESTER

A. Supply a flame arrester compatible with the required LFG flow rates. Flame arrester shall be sized to match the blower discharge pipe or flare inlet pipe, whichever is larger, with 125 lb. rating ANSI flanged connections. The housing construction shall

Specifications

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be cast aluminum. Maximum head loss through the flame arrester shall not exceed 5 in. w.c. at 2,200 cfm (4,400 cfm for the larger flare option) as supplied by Varec, Groth, Protectoseal, or other manufacturer approved by Owner's Representative.

2.03 PILOT PROPANE (LPG) TANK AND PIPING

- A. The propane tank shall be a standard 200 lb tank equipped with fuel gauges. The pressure of the gas shall meet the requirements of the flare pilot system. Mechanical force shall be provided to boost the gas pressure as required.

2.04 CONDENSATE DRAIN PIPES FOR FLARE COMPONENTS

- A. The flame arrester, flare stack, and other parts of the system recommended by the flare manufacturer shall be equipped with condensate drain piping. Pipes shall be sized in accordance with the manufacturer's recommendations.
- B. Condensate drains on the pressure side of the blower shall include an automatic drip trap as supplied by Varec, Groth, Protectoseal, or other manufacturer approved by the Owner's Representative.

2.05 FUTURE FLARE CONNECTION

- A. This section is only applicable if a flare with a capacity less than 4,400 scfm is provided at present (i.e. 2,200 scfm flare option provided at present).
- B. Provide a stub out and other appurtenances required for seamlessly adding a 2,200 scfm flare in the future. The stub out for this flare addition shall be provided on the pipe branch to the flare to be provided at present.

2.06 ELECTRICITY GENERATION PLANT CONNECTION

- A. The blower/flare skid shall have stub out for connecting the pipe branching off from the discharge end of the blower to the electricity generation plant located about 3,000 feet from the blower/flare skid.
- B. The stub out shall have adequate length for installation of manual and automatic shutoff valves, flow meter, sampling port, and any other valves or instruments needed for the automatic control system without interfering with the blower skid.

2.07 AUTOMATIC GAS INLET (SHUTOFF) VALVE

- A. Supply two electrically operated automatic shutoff valves to be located downstream of the blower. These valves shall include backup mechanisms to enable closing of valves in the event of power failure as well. One valve shall be located on the branch to the flare and the other on the branch to the electricity generation plant.

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Automatic valves shall include a mechanism to automatically close to prevent free venting of landfill gas: (i) upon loss of power or other conditions leading to failure of all blowers (both valves); or (ii) conditions that lead to the shutdown of the flare (flare branch valve) or electricity generation plant (plant branch valve).

2.08 FLARE CONTROLS

- A. The controls shall provide for automatic and manual operation and ignition of the flare unit, and shall include a weatherproof control panel, trouble light contacts, automatic start/stop for pilot ignition, controllers, spark plugs, orifices, ultraviolet (UV) scanners, thermocouplers, timers, and all other necessary components for a complete operational, automatic system. The controls shall include an automatic dialer with capacity to store and dial up to 6 phone numbers in a hierarchical order, with the provision to stop dialing other receivers as soon as the call is acknowledged as accepted by one receiver.

2.09 IGNITION PROCEDURE AND CONTROL SEQUENCE

- A. Remote spark ignition of propane gas/air mixture creates pilot flame that ignites LFG main flame.
- B. Once pilot is proven, blower turns on (if not already operating to supply gas to the generating plant) and electric gas inlet valve is opened.
- C. If pilot is not ignited within the preselected time interval (as set on the timer), pilot gas is shut off and "Pilot Ignition Failure" is signaled with trouble light.
- D. When main flame is successfully ignited (as detected by an UV scanner), pilot gas is automatically shut off.
- E. If main flame is not ignited within the preselected time interval, pilot gas is shut off and "Flare Ignition Failure" is signaled with trouble light.
- F. If main flame is extinguished after successful ignition, pilot is automatically turned on and reignition attempted for a designated time interval. The waiting time before starting reignition procedures after a main flame failure should be programmable by the operator.
- G. If the main flame is not successfully reignited in the designated time interval after being extinguished during normal operation or upon initial ignition, the automatic shutoff valve is closed, the blower(s) shut down (if generation plant is not operating), and the telephone dialer and alarm is activated to notify the locations stored in memory.

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2.10 ELECTRICITY GENERATION PLANT AND FLARE AUTOMATIC CONTROLS

- A. An automatic feedback control system shall be used to route landfill gas flow to the flare and generation plant as well as deliver a steady vacuum to the well field.
- B. The automatic control system shall provide for a specified vacuum to be maintained to the well field regardless of the varying operational gas demands of the generation plant. The control system should allow for the manual adjustment of this set vacuum value by the flare system operator.
- C. The control system shall be capable of automatically adjusting the gas flow rate to the generation plant based on its varying operational gas demands by adjusting the flow to the flare. The control system shall also maintain a set positive pressure level (i.e. 1 to 10 in wc.) at the delivery point to the generation plant located about 3,000 feet from the flare skid. If the collected landfill gas is not enough to supply to meet the demand from the generation plant while satisfying the minimum flow rate requirements for the flare, the flare shall be shut down.

2.11 BLOWER ASSEMBLIES

- A. Two identical blowers shall be provided and connected in a parallel configuration. Initially they will be used alternatively with one serving as a backup. As landfill gas collection increases, both blowers will be operated simultaneously.
- B. Each blower shall be variable frequency drive (VFD), multistage centrifugal-type blower capable of delivering 2,200 cubic feet per minute (cfm) of landfill gas at -50 inches of water column (in-w.c.) on the inlet side and +20 in-w.c on the discharge side simultaneously. When both blowers are operated, they shall be capable of delivering 4,400 cubic feet per minute (cfm) of landfill gas at -50 inches of water column (in-w.c.) on the inlet side and +20 in-w.c on the discharge side simultaneously. Blowers manufactured by Gardener Denver, New York Blower, Aerovent, Hoffman, Hauck or equivalent approved by the Owner's Representative can be used. The assembly shall be factory mounted on the flare steel skid and delivered to the site as a complete unit.
- C. The motor and blower housings shall each be provided with a nameplate which states the manufacturer, model number, serial number, and the pertinent information regarding electrical requirements, size, capacity, etc.
- D. Each blower motor shall be 25 HP, or as recommended by the blower manufacturer to be compatible with electrical service of 480-volt, 3-phase, and 60-hertz. The blower motors shall be high efficiency, non-sparking, totally enclosed, fan cooled (TEFC), and explosion proof.

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- E. Motor starter shall be equipped with ammeter (meter relay), Hand-Off Automatic switch, red run light, time switch, and hour meter. Combination controller shall incorporate I-T-E Type ETI, or equal, motor circuit protector and full-voltage, non-reversible starter, in NEMA 3R enclosure with acrylic window for viewing indicators.
- F. The blowers shall be supplied with a factory applied phenolic coating or other coating to protect all internal parts that will be in contact with landfill gas and to provide resistance to corrosion. Impellers, if constructed of aluminum or stainless steel, shall not require coating.
- G. The blower controls shall include a thermal protection package to monitor the blower inlet and outlet bearing temperatures. Sufficient wiring and conduit shall be provided by the Contractor to span the distance between the control panel and the blower bearings.

2.12 EXPANSION JOINTS

- A. Expansion joints between the blower inlet and outlet and connected piping shall be supplied by the blower manufacturer and shall be manufactured by Lamson or equivalent approved by the Owner's Representative.

2.13 VALVES

- A. Butterfly valves located on the inlet of each blower shall be supplied by the blower manufacturer and shall be a Lamson, wafer-type with a lever or equivalent approved by the Owner's Representative.
- B. Flanged butterfly valves may require spacers between the flange adapters and the valve body in order to allow full travel of the internal disk. If spacers are necessary for any butterfly valve, the Contractor will install valve spacers subject to approval by the Owner's Representative.
- C. Butterfly control valves shall be provided upstream and downstream side of the blower as shown on the Drawings. The upstream valves shall be installed a minimum distance upstream of the blower flange as recommended by the blower manufacturer. These valves shall have wheel-type controls.

2.14 CONDENSATE KNOCKOUT POT

- A. A 48-in diameter and 72-inch high condensate knockout pot shall be provided with flanged inlet and outlet connectors. Alternate sizes may be accepted by the Owner's representative based on recommendations of the blower/flare supplier as necessary for satisfactory performance of the system.

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- B. The knockout pot shall include a stainless steel demister pad with a 98% filtration efficiency for free liquid and solid particles of 20 micron or larger.
- C. The knockout pot shall have an appropriate internal coating to resist acidic condensate. The external finish shall be rust resistant.
- D. The knockout pot shall have a removable lid for inspection and repair.
- E. The knockout pot shall have a heavy duty gage glass liquid level indicator, a liquid level switch for high condensate level alarm/shutdown, and a 2-in gravity drain connection with a manual valve.

2.15 SIGNAGE

- A. Gas direction arrows shall be placed on all piping in the blower pad area. The moisture trap shall be marked "MOISTURE TRAP". Letters and numerals shall be at least 3 inches high. Numerals identifying Blower Nos. 1 and 2 shall be mounted on the blower coupling guard.
- B. "Danger - No Smoking" signs shall be prominently displayed on all four sides of the fenced enclosure. Signs shall be metal or approved equivalent construction with 2" high lettering. The Contractor shall submit signage layout Drawings for the Owner's Representative's approval.

2.16 SPARE PARTS

- A. The Contractor shall provide the following spare parts:
 - 1. 20 ounces of approved grease, or equivalent
 - 2. One each vacuum and pressure gauge
 - 3. Parts recommended by the blower manufacturer.

2.17 INSTRUMENTATION

- A. Provide a pressure gauge on the outlet and a vacuum gauge on the inlet side of each blower. Pressure and vacuum gauges shall be capable of measuring 0 to 30 and 0 to 70 in w.c., respectively, with the smallest measurement unit of at least 1 in. w.c. Gauges shall have at least a 2.5-inch-diameter dial as supplied by the blower manufacturer.
- B. Instrumentation for the flare such as thermocouples as specified in Section 2.08 shall be provided. Instrumentation needed for the seamless operation of the automatic feedback control system per the requirements of Section 2.10 shall be provided.

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- C. Provide two digital flow meters manufactured by Fluid Components, Thermal Instruments, or equivalent approved by the Owner's Representative. The flow meter shall be capable of measuring 0 to 4,500 scfm landfill gas flow rate, with an accuracy of +/-1%. The flow meter shall be a mass flow meter capable of directly reading the flow rate in standard cubic feet per minute (scfm). The flow meter shall be installed in a straight section of the gas pipe away from installations such as valves and reducers that may cause flow disturbances. The up and down stream straight pipe lengths recommended by the manufacturer for correct operation of the flow meter shall be maintained.
- D. Provide a temperature gage capable of measuring from 0 to 200°F with the smallest measurement unit of at least 1°F at the upstream side of the blower.
- F. Provide price for a continuous gas analyzer capable of recording gas quality in terms of methane, carbon dioxide, oxygen, and balance gas. Install the gas analyzer between the blower and the pipe junction for the flare and plant branches, if the Owner elects to buy this instrument. This gas analyzer shall meet one of the methods cited in EPA's Mandatory Green House Gas (GHG) Reporting rule. Alternatively, the manufacturer shall provide documentation that the method used by the gas analyzer is acceptable to EPA for GHG reporting purposes for approval by the Owner's Representative.

2.18 DATA RECORDER

- A. Provide an electronic data recorder manufactured by Yokogawa or equivalent manufacturer approved by the Owner's Representative and capable of recording data from all electronic gages on the flare/blower skid. Flare temperature and gas flow rate are required by regulations to be recorded. Other gages that should be recorded are vacuum (inlet side of blower), pressure (out let side of blower), landfill gas temperature, and gas quality etc. The recorder shall have at least six channels.

2.19 SKID

- A. Provide a heavy duty structural steel sub-base with non-skid floor plate welded over all open areas. The skid shall be constructed to withstand all loads and hauling forces. All necessary bracing, mounting pads, and piping supports shall be provided for proper equipment installation and alignment.
- B. The skid shall have adequate grounding and lightning protection. If the blower and flare are installed on separate skids the equipment shall be electrically bonded together.

PART 3- EXECUTION

Specifications

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3.01 INSTALLATION

- A. Installation shall be in accordance with the Drawings and Specifications.
- B. Install the blower assemblies in compliance with the manufacturer's recommendations, the referenced codes, the Drawings, and as specified below. The flare and controls shall be installed in accordance with manufacturer's recommendations. All necessary support angles and anchor bolts shall be furnished and installed per the flare manufacturer's recommendations. The connection requirements and stack sizes vary from one manufacturer to another. The Contractor shall prepare the installation surfaces only after the flare unit is approved by the Owner's Representative and stack sizes and piping connections are determined.
- C. The blower assemblies shall be mounted on neoprene isolation pads provided with the blower. Do not bolt down the blower motor assemblies directly to the skid without isolation pads.
- D. The Contractor shall check and, if necessary, adjust the alignment of the motor coupling in accordance with the instructions of the blower manufacturer.
- E. Equipment shall be field-tested to verify proper alignment and operation, including: freedom from binding, scraping, vibration, shaft runout, rotation direction, or other defects.
- F. Shop-painted items which have damage to the shop coatings shall be touched up to match the basic color of the equipment, as approved by the Owner's Representative.

3.02 STARTUP AND TESTS

- A. Furnish all equipment, materials, and labor necessary for testing the operation of the complete system, valves and appurtenances, upon completion of the installation. The blowers shall be tested to assure proper operation and delivery of specified flow rates and vacuums.
- B. Adequate startup training shall be provided. Training schedule shall be submitted and approved by the Owner.

[END OF SECTION]

**SWORN STATEMENT PURSUANT TO SECTION 287.133(3)(a), FLORIDA STATUTES, ON
ENTITY CRIMES**

1. This sworn statement is submitted to _____
(print name of the public entity)
- by _____
(print individual's name and title)
- for _____
(print name of entity submitting sworn statement)
- whose business address is
- _____
- _____
- and (if applicable) its Federal Employer Identification Number (FEIN) is:
- _____
- (If the entity has no FEIN, include the Social Security Number of the Individual signing this sworn statement: _____)

2. I understand that a "public entity crime" as defined in Paragraph 287.133(1)(g), **Florida Statutes**, means a violation of any state or federal law by a person with respect to and directly related to the transaction of business with any public entity or with an agency or political subdivision of any other state or of the United States, including, but not limited to, any bid or contract for goods or services to be provided to any public entity or an agency or political subdivision or any other state or of the United States and involving antitrust, fraud, theft, bribery, collusion, racketeering, conspiracy, or material misrepresentation.
3. I understand that "convicted" or "conviction" as defined in Paragraph 287.133(1)(b), **Florida Statutes**, means a finding of guilt or a conviction of a public entity crime, with or without an adjudication of guilt, in any federal or state trial court of record relating to charges brought by indictment or information after July 1, 1989, as a result of jury verdict, nonjury trial, or entry of a plea of guilty or nolo contendere.
4. I understand that an "affiliate" as defined in Paragraph 287.133(1)(a), **Florida Statutes**, means:
- a. A predecessor or successor of a person convicted of a public entity crime; or
 - b. An entity under the control any natural person who is active in the management of the entity and who has been convicted of a public entity crime. The term "affiliate" includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in the management of an affiliate. The ownership by one person of shares constituting a controlling interest in another person or a pooling of equipment or income among persons when not for fair market value under an arm's length agreement, shall be a prima facie case that one person controls another person. A person who knowingly enters into a joint venture with a person who has been convicted of a public entity crime in Florida during the preceding 36 months shall be considered an affiliate.
 - c. I understand that a "person" as defined in Paragraph 287.133(1)(e), **Florida Statutes**, means any natural person or entity organized under the laws of any state or of the United States with the legal power to enter into binding contract and which bids or applies to bid on contracts for the provision of goods or services let by a public entity, or which otherwise transacts or applies to transact business with a public entity. The term "person" includes those officers,

directors, executives, partners, shareholders, employees, members, and agents who are active in management of an entity.

- d. Based on information and belief, the statement, which I have marked below, is true in relation to the entity submitting this sworn statement. **(indicate which statement applies.)**

_____ Neither the entity submitting this sworn statement, nor any of its officers, directors, executives, partners, shareholders, employees, members, or agents who are active in the management of the entity, nor any affiliate of the entity has been charged with and convicted of a public entity crime subsequent to July 1, 1989.

_____ The entity submitting this sworn statement, or one or more of its officers, directors, executives, partners, shareholders, employees, members, or agents who are active in the management of the entity, or an affiliate of the entity has been charged with and convicted of a public entity crime subsequent to July 1, 1989.

_____ The entity submitting this sworn statement, or one or more of its officers, directors, executives, partners, shareholders, employees, members, or agents who are active in the management of the entity, or an affiliate of the entity has been charged with and convicted of a public entity crime subsequent to July 1, 1989. However, there has been a subsequent proceeding before a Hearing Officer of the State of Florida, Division of Administrative Hearings and the Final Order entered by the Hearing Officer determined that it was not in the public interest to place the entity submitting this sworn statement on the convicted vendor list. **(attach a copy of the final order).**

I UNDERSTAND THAT THE SUBMISSION OF THIS FORM TO THE CONTRACTING OFFICER FOR THE PUBLIC ENTITY IDENTIFIED IN PARAGRAPH 1 (ONE) ABOVE IS FOR THAT PUBLIC ENTITY ONLY AND, THAT HIS FORM IS VALID THOROUGH DECEMBER 31 OF THE CALENDAR YEAR IN WHICH IT IS FILED. I ALSO UNDERSTAND THAT I AM REQUIRED TO INFORM THE PUBLIC ENTITY PRIOR TO ENTERING INTO A CONTRACT IN EXCESS OF THE THRESHOLD AMOUNT PROVIDED IN SECTION 287.017, FLORIDA STATUTES FOR CATEGORY TWO OF ANY CHANGE IN THE INFORMATION CONTAINED IN THIS FORM.

(signature)

Sworn to and subscribed before me this _____ day of _____, 20_____

Personally known _____

OR produced identification _____ Notary Public - State of _____

_____ My commission expires _____

(Type of identification)

(Printed typed or stamped commissioned name of notary public)

Drug-Free Workplace Form

The undersigned vendor, in accordance with Florida Statute 287.087 hereby certifies that _____ does:

Name of Business

1. Publish a statement notifying employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the workplace and specifying the actions that will be taken against employees for violations of such prohibition.
2. Inform employees about the dangers of drug abuse in the workplace, the business's policy of maintaining a drug-free workplace, any available drug counseling, rehabilitation, employee assistance programs and the penalties that may be imposed upon employees for drug abuse violations.
3. Give each employee engaged in providing the commodities or contractual services that are under bid a copy of the statement specified in Paragraph 1.
4. In the statement specified in Paragraph 1, notify the employees that, as a condition of working on the commodities or contractual services that are under bid, the employee will abide by the terms of the statement and will notify the employer of any conviction of, or plea of guilty or nolo contendere to, any violation of Chapter 893 or of any controlled substance law of the United States or any state, for a violation occurring in the workplace no later than five (5) days after such conviction.
5. Impose a sanction on, or require the satisfactory participation in a drug assistance or rehabilitation program if such is available in the employee's community, by any employee who is so convicted.
6. Make a good faith effort to continue to maintain a drug-free workplace through implementation of Paragraphs 1 through 5.

Check one:

_____ As the person authorized to sign this statement, I certify that this firm complies fully with above requirements.

_____ As the person authorized to sign this statement, this firm **does not** comply fully with the above requirements.

Offeror's Signature

Date

**Information Sheet
for Transactions and Conveyances
Corporation Identification**

The following information will be provided to the Escambia County Legal Department for incorporation in legal documents. It is, therefore, vital all information is accurate and complete. Please be certain all spelling, capitalization, etc. is exactly as registered with the state or federal government.

(Please Circle One)

Is this a Florida Corporation:

Yes or No

If not a Florida Corporation,

In what state was it created: _____

Name as spelled in that State: _____

What kind of corporation is it:

"For Profit" or "Not for Profit"

Is it in good standing:

Yes or No

Authorized to transact business in Florida:

Yes or No

State of Florida Department of State Certificate of Authority Document No.: _____

Does it use a registered fictitious name:

Yes or No

Names of Officers:

President: _____ Secretary: _____

Vice President: _____ Treasurer: _____

Director: _____ Director: _____

Other: _____ Other: _____

Name of Corporation (As used in Florida):

(Spelled exactly as it is registered with the state or federal government)

Corporate Address:

Post Office Box: _____

City, State Zip: _____

Street Address: _____

City, State, Zip: _____

(Please provide post office box and street address for mail and/or express delivery; also for recorded instruments involving land)

(Please continue and complete page 2)

Federal Identification Number: _____
(For all instruments to be recorded, taxpayer's identification is needed)

Contact person for company: _____
Telephone Number: _____ Fascimile Number: _____

Name of individual who will sign the instrument on behalf of the company:

(Upon Certification of Award, Contract shall be signed by the President or Vice-President. Any other officer shall have permission to sign via a resolution approved by the Board of Directors on behalf of the company. Awarded contractor shall submit a copy of the resolution together with the executed contract to the Office of Purchasing)

(Spelled exactly as it would appear on the instrument)

Title of the individual named above who will sign on behalf of the company:

END

(850) 488-9000 Verified by: _____ Date: _____

ESCAMBIA COUNTY , FLORIDA GENERAL TERMS and CONDITIONS

The following General Terms and Conditions are incorporated by reference and have the same legal effect as if printed in its entirety.

A full textual copy of these conditions may be obtained by visiting the Office of Purchasing Home Page (see Bid Information), by telephoning the Office of Purchasing at (850) 595-4980 or by Fax at (850) 595-4805.

NOTE: Any and all Special Terms and Conditions and specifications referenced within the solicitation which vary from these General Terms and Conditions shall have precedence. Submission of the Solicitation, Offer and Award Form and Bid/Proposal Form(s) in accordance with these General Terms and Conditions and Special Terms and Conditions constitutes an offer from the offeror. If any or all parts of the offer are accepted by Escambia County Florida, an authorized representative of the county shall affix his signature hereto, and this shall then constitute a written agreement between parties. The conditions incorporated herein become a part of the written agreement between the parties.

Bid Information See Home Page URL: <http://www.myescambia.com/purchasing>
Click on **ON-LINE SOLICITATIONS**

1. **Sealed Solicitations**
2. **Execution of Solicitation**
3. **No Offer**
4. **Solicitation Opening**
5. **Prices, Terms and Payment**
 - 5.01 **Taxes**
 - 5.02 **Discounts**
 - 5.03 **Mistakes**
 - 5.04 **Condition and Packaging**
 - 5.05 **Safety Standards**
 - 5.06 **Invoicing and Payment**
 - 5.07 **Annual Appropriations**
6. **Additional Terms and Conditions**
7. **Manufacturers' Name and Approved Equivalents**
8. **Interpretations/Disputes**
9. **Conflict of Interest**
 - 9.01 **County Procedure on Acceptance of Gifts**
 - 9.02 **Contractors Required to Disclose any Gift Giving**
 - 9.03 **Gratuities**
10. **Awards**
11. **Nonconformance to Contract Conditions**
12. **Inspection, Acceptance and Title**
13. **Governmental Restrictions**
14. **Legal Requirements**
15. **Patents and Royalties**
16. **Price Adjustments**
17. **Cancellation**
18. **Abnormal Quantities**
19. **Advertising**
20. **Assignment**
21. **Liability**
22. **Facilities**
23. **Distribution of Certification of Contract**

ESCAMBIA COUNTY , FLORIDA GENERAL TERMS and CONDITIONS
The following General Terms and Conditions are incorporated by reference
(continued).

24. **The Successful Bidder(s) must Provide**
25. **Addition/deletion of Items**
26. **Ordering Instructions**
27. **Public Records**
28. **Delivery**
29. **Samples**
30. **Additional Quantities**
31. **Service and Warranty**
32. **Default**
33. **Equal Employment Opportunity**
34. **Florida Preference**
35. **Contractor Personnel**
36. **Award**
37. **Uniform Commercial Code**
38. **Contractual Agreement**
39. **Payment Terms/Discounts**
40. **Improper Invoice; Resolution of Disputes**
41. **Public Entity Crimes**
42. **Suspended and Debarred Vendors**
43. **Drug-Free Workplace Form**
44. **Information Sheet for Transactions and Conveyances**
45. **Copies**
46. **License and Certifications** - For access to Certification/Registration Form for doing Business in Florida go to the Department of State, Division of Corporations, URL:<http://ccfcorp.dos.state.fl.us/corpweb/inquiry/search.html>
47. **Execution of Contract**
48. **Purchase Order**
49. **No Contingent Fees**
50. **Solicitation Expenses**
51. **On-Line Auction Services**

SPECIAL TERMS AND CONDITIONS

The Board of County Commissioners, Escambia County, Florida, invites your company to submit a sealed offer on the item(s) as listed in this solicitation request.

All terms and conditions below are a part of this request, and no offer will be accepted unless all these conditions have been complied with. The County reserves the right to waive informalities in any offer; to reject any or all offers, in whole or in part, and/or to accept the offer(s) that in its judgment is from the lowest and most responsible and responsive offeror(s).

Instructions to Offerors

1. General Information

All offers to be considered shall be in the possession of the Office of Purchasing prior to the time of the solicitation closing. Offers may be mailed to 213 Palafox Place, Room 11.101, Pensacola, Florida 32502 or delivered to the Office of Purchasing, 2nd floor, Room 11.101, Matt Langley Bell, III Bldg., 213 Palafox Place, Pensacola, Florida 32502, in a sealed envelope clearly marked:

**Specification Number PD 09-10.028, "Blower / Flare Station, Perdido Landfill",
Name of Submitting Firm, Time and Date due.
Note: If you are using a courier service; Federal Express, Airborne, UPS, etc.,
you must mark airbill and envelope or box with Specification Number
and Project Name.**

Regardless of the method of delivery, each offeror shall be responsible for his offer(s) being delivered on time as the County assumes no responsibility for same. Offers offered or received after the time set for solicitation closing will be rejected and returned unopened to the offeror(s).

The following policy will apply to all methods of source selection:

2. Conduct of Participants

After the issuance of any solicitation, all bidders/proposers/protestors or individuals acting on their behalf are hereby prohibited from **lobbying** as defined herein or otherwise attempting to persuade or influence any elected County officials, their agents or employees or any member of the relevant selection committee at any time during the **blackout period** as defined herein; provided, however, nothing herein shall prohibit bidders/proposers/protestors or individuals acting on their behalf from communicating with the purchasing staff concerning a pending solicitation unless otherwise provided for in the solicitation or unless otherwise directed by the purchasing manager.

Definitions

Blackout period means the period between the time the bids/proposals for invitations for bid or the request for proposal, or qualifications, or information, or requests for

letters of interest, or the invitation to negotiate, as applicable, are received at the Escambia County Office of Purchasing and the time the Board awards the contract and any resulting bid protest is resolved or the solicitation is otherwise canceled.

Lobbying means the attempt to influence the thinking of elected County officials, their agents or employees or any member of the relevant Selection Committee for or against a specific cause related to a pending solicitation for goods or services, in person, by mail, by facsimile, by telephone, by electronic mail, or by any other means of communication.

Sanctions

The Board may impose any one or more of the following sanctions on a nonemployee for violations of the policy set forth herein:

- (a) Rejection/disqualification of submittal
- (b) Termination of contracts; or
- (c) Suspension or debarment as provided in Sec. 46-102 of the Escambia County Code of Ordinances.

This policy is not intended to alter the procedure for Protested Solicitations and Awards as set forth in the Sec. 46-101 of the Escambia County Code of Ordinances.

3. SCOPE OF WORK SUMMARY

Background

The Escambia County Division of Solid Waste Management (DSWM) operates the Perdido Landfill, located in Cantonment, Florida, and is modernizing and expanding the permitted Title V landfill gas (LFG) collection and control system. Modernization and expansion includes installation of a new LFG Blower/Flare station, additional vertical LFG extraction wells and installation of a new LFG header in Section 3C.

Scope of Work

This request is for bids on providing all electrical and mechanical equipment and associated components for a Blower/Flare Station for the Perdido Landfill, landfill gas collection and control system meeting the attached specifications. Installation of the Blower/Flare Station will be under a separate bid.

4. BID SURETY

Each offer shall be accompanied by a bid bond, cashier's check or certified check in the amount of **5%** of the total offer.

Checks or bonds are to be made payable to Escambia County, Florida. The amount of the bond or check is the amount of liquidated damages agreed upon should the offeror fail or refuse to enter into a contract with the County.

A County warrant in the amount of the bid check(s) of the successful offeror(s) will be

returned immediately after the offeror and the County are mutually bound by contract as evidenced by signatures thereto by an authorized representative of both the offeror and the County, and/or the offeror accepts the purchase order by signing the solicitation, offer and award form/acceptance copy of same and returning to the County Purchasing department. Any unsuccessful offeror(s) will have the amounts of his cashier's or certified check returned via county warrant promptly after award.

All offerors agree that any interest earned on any bid surety while in possession of the County, or its agents, shall be retained by the County.

5. **Questions**

All questions shall be directed to Paul R. Nobles, CPPO, CPPB, FCN, FCPM, FCCM, Purchasing Coordinator, Phone (850) 595-4918, Fax (850) 595-4805.

6. **Questions and Responses**

Contractors requesting a response from Escambia County shall submit all questions in writing no later than **5:00 p.m., CST, Tuesday, March 9, 2010** to Paul R. Nobles, CPPO, CPPB, FCN, FCPM, FCCM, Purchasing Coordinator. Questions submitted to other parties involved with this solicitation will not be answered. Failure to submit requests in writing in a timely manner shall not be grounds for a protest.

7. **Bid Forms**

This Solicitation contains a Solicitation, Offer and Bid Form, which shall be submitted in a sealed envelope, in duplicate with Original signatures in indelible ink signed in the proper spaces. Responses on vendor forms will not be accepted.

The Offerors Checklist included in this solicitation provides instructions to the offeror on the documentation to be submitted during the procurement process.

8. **Pre-Solicitation Conference**

All interested parties are invited to attend a pre-solicitation conference on Wednesday, March 10, 2010 commencing at 1:00 p.m., CST to be held at the Perdido Landfill, Administrative Conference Room, 13009 Beulah Road, Cantonment, FL.

At this time, the Board's representative will be available to answer questions relative to this Solicitation. Any suggested modifications may be presented in writing to, or discussed with, the Board's representative(s) at this meeting and may be considered by said representative(s) as possible amendments to the Solicitation.

9. **F.O.B. Point**

The F.O.B. shall be Perdido Landfill, 13009 Beulah Road, Cantonment, Florida, 32533. Offers showing other than F.O.B. destination will not be accepted. The prices shall include all costs of packaging, transporting, delivery and unloading to designated point within Escambia County. **See Item 16 on the Bid Form.**

10. Compliance with Occupational Safety and Health

Offeror certifies that all equipment contained in his offer meets all Occupational Safety and Health Administration (OSHA) requirements.

Offeror further certifies that, if he is the awarded vendor, and the equipment delivered is subsequently found to be deficient in any OSHA requirement in effect on date of delivery, all costs necessary to bring the material, equipment, etc., into compliance with the aforementioned requirements shall be borne by the vendor.

11. Safety Regulations

Equipment shall meet all state and federal safety regulations for grounding of electrical equipment.

12. Codes and Regulations

The awarded vendor shall strictly comply with all federal, state and local building and safety codes.

13. Payment

Partial billing will not be accepted. Escambia County will pay 100% of the contract price after all items have been delivered and accepted. Payment for accepted equipment/supplies/services will be accomplished by submission of an **original** invoice, in duplicate, to:

Clerk of the Circuit Court
Attention: Accounts Payable
223 South Palafox Place, Room 204
Pensacola, FL 32502

14. Information and Descriptive Literature

Offerors shall furnish all information requested and in the space provided on the bid/proposal form, if any. Furthermore, each offeror offering an alternate other than the brand(s) specified shall submit with his offer, descriptive literature and/or complete specifications covering the products offered. Reference to literature submitted with a previous offer will not satisfy this provision. Offers which do not comply with these requirements shall be subject to rejection.

15. Brand/Manufacturer Referenced

Reference manufacturer indicated. Products similar in design and equal in function and performance may also be considered. Alternate offers shall include detailed specifications and/or descriptive literature. Failure to include such specifications or literature may be cause for disqualification of the offer.

16. Equipment/Service

The scope of these specifications is to insure the delivery of a complete unit ready for operation. Omission of any essential detail from these specifications does not relieve the awarded vendor from furnishing a complete unit.

All equipment shall be new, of current manufacturer in production at the time of solicitation opening and carry standard warranties. The awarded vendor shall service all equipment prior to delivery.

Offers will be considered only on equipment which can, on short notice, be serviced and maintained by the successful offeror. At the time of solicitation opening, the offeror shall be an authorized dealer, distributor, and/or representative of the manufacturer for the brand/model being offered. For the purposes of this solicitation, dealer, distributor, and/or representative means a firm or person that owns, operates, or maintains a store, warehouse, or other establishment in which materials, supplies, parts, articles, or equipment of the general character described in the specifications are bought, kept in stock and sold commercially or to the public in the usual course of business. The offeror shall maintain a normal supply of repair parts and be equipped with personnel and facilities to provide such service as necessary to keep the equipment in operation with a minimum delay. Failure to meet these requirements, in the County's sole opinion, may be cause for rejection.

Offeror shall indicate the nearest available location for replacement parts, how long parts will be available on the market and the number of days to receive parts after receipt of order. The space for this information is included on the bid/proposal form.