

October 5, 2017

ADDENDUM NUMBER: Four (4)

TITLE: Helicopter based Transmission and Distribution Circuit Maintenance, Construction, Inspection and Repair

JEA IFB NUMBER<u>: **129-17**</u>

BID DUE DATE: October 17, 2017

TIME OF RECEIPT: 12:00 PM

TIME OF OPENING: 2:00 PM

THIS ADDENDUM IS FOR THE PURPOSE OF MAKING THE FOLLOWING CHANGES OR CLARIFICATIONS:

- CHANGE: A second Mandatory Pre-Bid Meeting has been scheduled on October 10, 2017 at 1:00p.m to increase competition and discuss the changes in addendum 4. The location and call in information meeting will remain the same. JEA Bid Office, Customer Center, 1st Floor, Room 002, 21 W Church Street, Jacksonville, FL 32202 OR Dial In 1-888-714-6484 Passcode: 817050. Note this meeting is optional for companies that attended the first mandatory meeting however it is mandatory for companies that did not attend the first mandatory meeting.
- 2. **CHANGE:** The bid due date has been extended from October 10, 2017 to October 17, 2017. The time of receipt and opening will remain the same.
- 3. **REVISED DOCUMENTS:** The following documents have been revised and included with this addendum:
 - Appendix A Techincal Specification- revisions are tracked and include a revision to section 1.3.24, additional of item 14 within section 13 and the addition of section 16 STORM DAMAGE ASSESSMENT, STAND BY PAY AND RIGHT OF FIRST REFUSAL
 - Appendix B Bid Workbook- item 14 for "Daily Storm Stand By Rate" has been added.
 - Exhibit A Sample Work Scope and Associated Invoice Explanation has been revised.
- 4. **CHANGE:** The following terms and conditions sections have been revised as shown highlighted below:

2.7.1.1. TITLE AND RISK OF LOSS

Ownership, risks of damage to or loss of the Work shall pass to JEA upon Acceptance. Except to the extent caused by the negligence or willful misconduct of JEA, the Company shall assume all risk of loss or damage to the Work while items are in transit and/or in the Company's custody until such time that JEA issues written notice of Acceptance.

JEA's receipt or delivery of any equipment or other materials will not constitute JEA's Acceptance of the Work and will not constitute a waiver by JEA of any right, claim or remedy. In the event of loss or damage to the Work, except to the extent caused by the negligence or willful misconduct of JEA, the Company shall bear all costs associated with any loss or damage until Acceptance by JEA.

For equipment and materials removed from JEA sites or the Work locations for repairs, service or duplication, JEA will retain the title to equipment and materials removed.

2.7.3. ENVIRONMENTAL INDEMNIFICATION

The Company shall hold harmless and indemnify JEA and Florida Power and Light (FPL), including without limitation, its officers, directors, members, representatives, affiliates, agents and employees, successors and assigns (the "Indemnified Parties") and will reimburse the Indemnified Parties from and against any and all claims, suits, demands, judgments, losses, costs, fines, penalties, damages, liabilities and expenses (including all costs of cleanup, containment or other remediation, and all costs for investigation and defense thereof including, but not limited to, court costs, reasonable expert witness fees and attorney fees) to the extent arising from or in connection with (a) the Company's, including, but not limited to, its agents, affiliates or assigns ("Parties"), negligent or wrongful actions or activities that result in a violation of any environmental law, ordinance, rule, or regulation or that leads to an environmental claim or citation or to damages due to the Company's or other Parties' activities, (b) any environmental, health and safety liabilities arising out of or relating to the negligent operation or other negligent or wrongful activities performed in connection with this Contract by the Company or any Party at any time on or after the effective date of the Contract, or (c) any bodily injury (including illness, disability and death, regardless of when any such bodily injury occurred, was incurred or manifested itself), personal injury, property damage (including trespass, nuisance, wrongful eviction and deprivation of the use of real property) or other damage of or to any person to the extent in any way arising from or allegedly arising from any hazardous activity conducted by the Company or any Party. JEA and FPL will be entitled to control any remedial action, any proceeding relating to an environmental claim. This indemnification agreement is separate and apart from, and is in no way limited by, any insurance provided pursuant to this Contract or otherwise. This section relating to indemnification shall survive the Term of this Contract, and any holdover and/or Contract extensions thereto, whether such Term expires naturally by the passage of time or is terminated earlier pursuant to the provisions of this Contract.

2.7.4. INDEMNIFICATION (JEA STANDARD)

For ten dollars (\$10.00) acknowledged to be included and paid for in the contract price and other good and valuable considerations, the Company shall hold harmless and indemnify JEA against any claim, action, loss, damage, injury, liability, cost and expense of whatsoever kind or nature (including, but not by way of limitation, reasonable attorney's fees and court costs) arising out of injury (whether mental or corporeal) to persons, including death, or damage to property, to the extent arising out of or incidental to the negligence, recklessness or intentional wrongful misconduct of the Company and any person or entity used by Company in the performance of this Contract or Work performed thereunder. For purposes of this Indemnification, the term "JEA" shall mean JEA as a body politic and corporate and shall include its governing board, officers, employees, agents, successors and assigns. This indemnification shall survive the term of a Contract entered into pursuant to this solicitation, for events that occurred during the Contract term. This indemnification shall be separate and apart from, and in addition to, any other indemnification provisions set forth elsewhere in this Contract.

2.7.5 WAIVER OF CONSEQUENTIAL DAMAGES. Notwithstanding anything to the contrary contained elsewhere herein, neither JEA nor Company shall be liable to each other for any consequential, indirect, exemplary or punitive damages, including, but not limited to, loss of use, loss of profit, loss of revenue, or loss of product or production, arising out of or in connection with this Contract or any Work or services performed hereunder, regardless of the basis for any such claim.

JEA's indemnification obligations shall be limited by 768.28 Florida Statute, which is a partial waiver of sovereign immunity for tort claims only.

Acknowledge receipt of this addendum on the Bid Form

1

TECHNICAL SPECIFICATIONS

TABLE OF CONTENTS

SUB	SECTION
1.	GENERAL2
2.	PROJECT DESCRIPTION
3.	PROJECT EXECUTION
4.	CODES AND STANDARDS
5.	MATERIAL AND EQUIPMENT
6.	PROTECTION OF THE ENVIRONMENT
7.	SHORTS AND GROUNDS
8.	COMPANY EQUIPMENT AND SAFETY
9.	CONDITIONS FOR PERFORMING THE WORK
10.	ATTACHMENTS9
11.	JEA SUPPLIED PROJECT SHOW UP/MATERIAL LAYDOWN AREAS9
12.	SURFACE DAMAGE AND RESTORATION9
13.	TYPICAL WORK DESCRIPTIONS, HELICOPTER AND CREW STAFFING9
14.	PERMITS 10
15.	SPECIALTY EQUIPMENT

SECTION IV – TECHNICAL SPECIFICATIONS

1. GENERAL

1.1 <u>General Description</u>: The purpose of this specification is to provide the technical requirements and scope of work to support procurement of helicopter based aerial power line contractor services capable of performing flying storm damage assessment, circuit inspections, circuit construction, circuit repairs, circuit maintenance, vegetation patrols and tree trimming/clearing, post storm damage assessments and other services on JEA transmission and distribution circuits.

This work shall be performed on energized and de-energized transmission and distribution circuits. The potential work locations are located throughout JEA's service territory but are primarily in locations which provide difficult or no access for land based power line operations. The specification shall be paid based upon hourly labor, equipment and material charges. The Contract Term will be up to three (3) years, with two (2) optional one (1) year renewal.

1.2 <u>Intent:</u> The Company shall provide all tools (including hot line trailer with tools) and, equipment, labor, supervision, and helicopter mechanic(s) required to perform the assigned work. If JEA supplied material is required to perform the assigned work the Company shall contact JEA's storeroom and schedule JEA supplied material pick up. The Company shall provide labor and equipment as required to transport JEA supplied material to the job site.

1.3 Scope of Work:

The scope of the **aerial** based work shall include but not be limited to:

- 1.3.1 The Helicopter used to perform this work shall have be shall be a "MD 500" class helicopter or equal.
- 1.3.2 Emergency based Transmission Circuit Storm damage assessment
- 1.3.3 Transmission and Distribution Circuit Inspections to include patrol and comprehensive flights.
- 1.3.4 Transmission and Distribution Circuit Repairs and line work on energized and de-energized circuits using ladders and/or transferring lineman to structures to make repairs or perform inspections.
- 1.3.5 Vegetation Inspection.
- 1.3.6 Right of Way side tree trimming, tree topping, and removal of falling and danger trees.
- 1.3.7 Assist JEA crews and/or other JEA contractors in transmission and distribution circuit construction and maintenance activities. This typically would include sock line pulling in difficult access locations. The Company may "self perform" new helicopter based construction projects directly for JEA.
- 1.3.8 X ray transmission circuit hardware including dead end bodies, splices and other hardware.
- 1.3.9 Infra-red and corona camera circuit inspections
- 1.3.10 Patrol flights
- 1.3.11 Data management capabilities which includes reports and pictures.
- 1.3.12 Post Construction circuit inspections.
- 1.3.13 Miscellaneous tower work which includes removal, installation and/or transfer of bird nest.
- 1.3.14 Fly JEA employee(s) to/from work locations within our service territories for engineering analysis and/or inspection purposes and assistance.
- 1.3.15 Marker ball installation, removal and replacement.
- 1.3.16 Tower warning light repairs and maintenance.
- 1.3.17 Vibration damper replacement.
- 1.3.18 Remove and install conductor dead ends and splices to include compression and bolted type line hardware.
- 1.3.19 Replace insulators.
- 1.3.20 Insulator washing.
- 1.3.21 Mobilization and de-mobilization per project.
- 1.3.22 Standby or weather delays per hour. JEA shall pay the Contractors labor and equipment expenses for these delays if they occur.
- 1.3.23 Other services requiring helicopter based line crew work activities.

- 1.3.24 Post storm damage assessments including provisions to pay a "Stand By" rate and corresponding first right of refusal.-
- 1.4 Location of Project(s): The work sites are scattered throughout the JEA transmission and distribution system.
- 1.5 JEA Project Engineer:

Garry Moore, PE

Transmission Maintenance 2325 Emerson Street Jacksonville, Florida 32207 Phone: 904-665-6131 Email: moorgl@jea.com

- 1.6 <u>Pre-Construction Conference:</u> A mandatory pre-construction conference will be held for the benefit of communication and coordination. Such meeting will be scheduled by the JEA Project Engineer.
- 1.7 <u>Sequence of Work and Project Schedule</u>: The specified work shall be performed on an as assigned basis for three years or until the expenditure limit of the contract is reached. The Company shall note that transmission circuit outages on JEA's transmission system are typically granted during the months of October to mid-December and March to mid-May each year.
- 1.8 <u>Drawings, Route Maps and Details</u>: Drawings and/or work descriptions depicting the work to be performed shall be provided at the time a project is assigned for work. Transmission route maps shall be provided depicting the circuit routes, roadways, etc. for the Company's use prior to the start of assigned work. See the "Sample Work Scope and Associated Invoice Explanation" in the attachment section of these bid documents.
- 1.9 <u>Material Availability:</u> Material supplied by JEA will be made available at the beginning of projects and will be issued to the Company at JEA's Commonwealth Service Center, located at 6674 Commonwealth Avenue or from JEA's Southside Service Center located off 195 at 2325 Emerson Street. The material shall be issued on a per circuit basis and may require multiple material pickups by the Company during the life of the project.
- 1.10 <u>Electrical Clearances (Outages)</u>: All outages on the JEA Transmission System shall be granted by (JEA) Systems Operation and Control Center (SOCC) only. The Company shall submit all requests (for an outage) to SOCC for approval and, provided the request is granted, cooperate (with SOCC) in the scheduling, timing, duration and termination.
 - 1.10.1 <u>Recall of Line Clearances or Hold Tags</u>: In the event that a transmission or distribution hold tag on an energized or de-energized line must be recalled due to a system emergency, as determined by the JEA, the Company shall complete only the work necessary to clear the line or equipment, clear his personnel, and release his hold tag as quickly as possible. Any recall shall not constitute a just cause by the Company for a claim for extras. If JEA recalls a line clearance or hold tag, the Company shall be paid his cost for JEA caused delays.
 - 1.10.2 JEA's preference is to perform all work on de-energized circuits. However, some work may require work to be performed on the circuits while they are energized. JEA will provide daily circuit outages to perform this work when possible. The Company shall install and remove circuit grounds on a daily basis.
 - 1.10.3 JEA typically performs transmission system maintenance during low electric load periods in the fall, October 1st to mid-December, and spring, March 1st to mid-May of each year.
- 1.11 The Company shall thoroughly review the bid documents before preparing the bid.

- 1.12 In conjunction with the applicable sections of the Occupational Safety and Health Act (OSHA), the Company shall take precautions, at their own expense and include it in the bid, as necessary to:
 - 1.12.1 Protect all workmen engaged in the performance of the work specified.
 - 1.12.2 Provide safe passage to and from the adjacent areas that may be affected by the work.
 - 1.12.3 Protect the Public from hazardous conditions.
 - 1.12.4 Place and maintain necessary guards and barriers, lights, signs, etc.
 - 1.12.5 Prevent injuries and accidents.
 - 1.12.6 Assure falsework (scaffolding, ladders, etc.) shall be designed for the loads not less than those established by (OSHA) 29 CFR 1910 and 29 CFR 1926 as acceptable.

1.12.7 Conform to the requirements of (OSHA) 29 CFR 1910-1200 pertaining to the communication of information regarding hazards involved in his work.

- 1.15 <u>Temporary Protection and Construction</u>: The Company is responsible for providing any and all temporary protection to existing transmission and distribution lines and any existing improvements above or below ground which may be affected by the work. The Company shall **provide all labor and material** (except poles, insulators and transformers) and **equipment** for required temporary work on the existing transmission and distribution lines. The temporary work shall meet all the safety requirements of OSHA and the National Electric Safety Code.
- 1.16 <u>Mobilization and Demobilization</u>: The Company shall be paid for mobilizations and demobilizations based upon (LEM) labor, equipment and material prices included in the bid workbook. For purposes of invoicing, one mobilization occurrence consists of mobilizing to and from the project.
- 1.17 Bidder must have been in business performing aerial-based work in support of a utility for a minimum of three (3) years as of the bid due date. JEA will accept any verifiable documentation of business history dating back three (3) years as of the bid due date. Acceptable documents include, but are not limited to, the following:

Business Incorporation Documents, Publicly available financial records (Earning Statements, Profit and Loss Statements, etc.)

2. <u>PROJECT DESCRIPTION</u>

The first project(s) to be performed under this specification is the aerial line inspection and infra-red inspection of circuits within JEA's Transmission system. Post contract award, the contract administrator will provide additional information regarding each circuit, content and location. For the purposes of bidding, this information is being provided as reference information for the Bidder to gain a general understanding of work locations. The present list includes, but is not limited to:

Perform annual circuit inspections of partial sections of transmission circuits 833, 915, 844, 944, 821, 825, 816, 841, 669, 666, 840, 918, 926, 938, 934, 935, 822 and 853 crossing the St Johns River and Intracoastal Waterway or located in wetland or swampy area's with little to no ground access. GPS coordinates of these structures are attached. Inspections reports, by circuit, shall be prepared and presented to JEA upon completion. The inspection report shall include circuit number, structure number, dates, times flown and document items of concern with photographs and a detailed description of each discrepancy.

The Contractor shall annually fly JEA's overhead transmission system and infra-red all 138 KV, 230 KV transmission circuits and all power plant generator circuits. A Flir based infra-red camera system, or corresponding equivalent system, with the corresponding supporting reporting software shall be used to perform the infra-red circuit inspections. The Contractor shall provide detailed inspection reports containing the circuit number, structure number, dates, times flown and document items of concern with photographs, infra-red temperature difference photographs with temperature scales, reference temperature and detailed description of each discrepancy. See the sample infra-red report from a substation hot spot for information.

JEA may modify the frequency of the partial circuit inspections and infra-red inspections performed during the life of the contract.

Perform other work activities as assigned and mutually agreed to.

The annual work referenced above is subject to change. There is no guaranteed annual work or minimum work amount to be performed under this contract.

3. PROJECT EXECUTION

- 3.1 Work shall be performed with the transmission lines de-energized when and where possible.
- 3.2 The work as specified shall be performed as assigned.
- 3.3 Project funding and requested work activities shall be spread out over multiple fiscal years.
- 3.4 Mobilize and complete the assigned work within mutually agreed time frames.
- 3.5 Have on hand all tools, materials, equipment, and labor required for the work provided.
- 3.6 Once mobilized and work begins, the Company shall work continuously until completing all specified work.
- 3.7 The Company shall employ "Best Management Practices" while performing the specified activities.
- 3.8 The Company shall supply a Lead Person who is in "Responsible Charge" for all project activities. The "Responsible Charge" person must know, obey and enforce all environmental, work and safety practices and procedures. The Company's employee in "Responsible Charge" for each crew shall have a cell phone. The lead person in responsible charge shall be the project "foreman" for the purposes of this project.
- 3.9 The Company employee in "Responsible Charge" shall be issued a JEA radio and trained to call JEA's System Operations Control Center (SOCC) and request/obtain a "Line Clearance" and Close Inhibit hold tags anytime he has employees working. The Company shall call SOCC on the radio to request and obtain a "Close Inhibit" tag prior to crews working on structures with under built distribution equipment. The Company shall call SOCC on the radio and release all tags when the Company employee complete their daily work and are leaving the work site. NOTE: The Transmission and/or Distribution Circuit (s) shall remain energized during a "Close Inhibit" hold tag.
- 3.10 The Company's employees performing work on JEA transmission and distribution circuits shall attend the following training classes at JEA's expense with the cost to be paid based upon Labor, equipment, and material rates included in the Company's bid:

JEA's Substation Entry Class --- One half day, 4 hour class

Radio/Hold Tag Class --- One half day, 4 hour class

OSHA 10 Hour Class ---- One and half day class from the Florida Safety Council and other National Training Companies.

Safety Leadership Development class -- One ten (10) hour day class from the Florida Safety Council JEA Specific Training --- 2 hour class

4. <u>CODES AND STANDARDS</u>

The Company shall perform the project work in accordance with applicable requirements of the latest versions of the codes and standards referenced herein and in the Solicitation.

- 4.1 Latest Version. Unless a particular version is designated, all references to codes and standards shall, in each instance, be understood to be the current version of the code or standard in effect (including all amendments) on the date of the Request for Bid.
- 4.2 Conflicts. For materials or workmanship specified by association, trade, Federal, State, local codes and standards, comply with the requirements of the referenced code or standard. Where the requirements of referenced codes and standards conflict with each other, generally, the most stringent requirements apply. Where the requirements of referenced codes and standards conflict with the technical requirements stipulated herein, request clarification from Engineer before proceeding.
- 4.3 Codes. The project work performed shall comply with relevant portions of the following codes:
 - National Electrical Safety Code (ANSI C2).
 - Federal and State Occupational Safety and Health Act (OSHA)
 - Code of Federal Regulations
 - EPA
- 4.4 Standards. The project work performed shall comply with relevant portions of industry accepted standards published by the following institutes, associations, and societies:
 - American Institute of Steel Construction (AISC)
 - American Iron and Steel Institute (AISI)
 - American National Standard Institute (ANSI)
 - American Society of Civil Engineers (ASCE)
 - American Society of Mechanical Engineers (ASME)
 - American Society for Testing and Materials (ASTM)
 - Institute of Electrical and Electronics Engineers, Inc. (IEEE)
 - National Electrical Manufacturer's Association (NEMA)
 - Underwriters' Laboratories, Inc. (UL)
 - Edison Electric Institute

5. MATERIAL AND EQUIPMENT

- 5.1 General
 - 5.1.1 All material to be installed under this project is generally JEA supplied.
- 5.2 Owner-Furnished Materials
 - 5.2.1 The Company shall obtain Owner-furnished material items from the Owner's designated service center(s) and transport them to the job site.
 - 5.2.2 The Company shall receive, unload, inventory, inspect, and properly protect Owner-furnished material at the job site. Immediately report and return to the Owner any material items found damaged or unsuitable for use.
 - 5.2.3 Owner-furnished material items that are damaged by the Company shall be promptly replaced or, if approved by Engineer, satisfactorily repaired.
 - 5.2.4 The costs for handling, installing, adjusting, and integrating in the project all Owner-furnished material shall be included in the applicable pricing items in the Bid Form.

- 5.2.5 Costs for additional pick ups due to "short orders" or unavailability of material will not be cause for claims to JEA.
- 5.2.6 Company shall make a thorough check of all the quantities of pieces received and sign a Bill of Material indicating the amount consigned and shall be responsible for replacement of all material lost, stolen, or damaged thereafter.
- 5.2.7 Immediately following the pre-construction conference, Company shall pick up and properly store all material provided by JEA.
- 5.2.8 Company shall itemize all unused material on JEA supplied forms and then load, transport and return the unused material to JEA's Commonwealth Service Center.
- 5.3 Company Furnished Materials
 - 5.3.1 The Company shall provide technical data and/or literature on all Company supplied material for JEA review and approval prior to purchasing the material. Technical data is required to verify the Contactor Supplied Material is used for galvanized structural steel purposes and meet the requirements of this project.
- 5.5 Salvaged/Removed Materials
 - 5.5.1 Removed material items will be inspected by the Engineer. Salvage any material items identified by the Engineer.
 - 5.5.2 The Company shall keep all removed material for JEA inspection and shall dispose of the removed material once JEA grants approval to do so.
 - 5.5.3 The Company shall remove and dispose of all remaining material at Company's expense.
 - 5.5.4 The Company shall handle all waste from his operation(s) in accordance with the Resource Conservation and Recovery Act (RCRA) located in 40 CFR Parts 260-266 of the Code of Federal Regulations.
 - 5.5.5 The Company shall remove salvaged material as described in these specifications and transport/deliver the removed static wire to JEA's salvage recovery activity located at JEA's Westside Service Center.

6. <u>PROTECTION OF THE ENVIRONMENT</u>

The Company shall maintain work areas free from environmental pollution that would be in violation of any federal, state, or local ordinances or regulations.

6.1 Environmental Indemnity

See section 2.7.2.2 of the solicitation.

6.2 Environmental Requirements

Environmental Requirements shall be defined as all laws, ordinances, statutes, codes, rules, regulations, agreements, judgments, orders, permits including their conditions, and decrees, now or hereafter enacted, promulgated, or amended, of the United States, the states, the counties, the cities, or any other political subdivisions in which the Work Location is located, and any other political subdivision, agency or instrumentality exercising jurisdiction over JEA, the Work Location, or the use of the Work Location, relating

to pollution, the protection or regulation of human health, natural resources, or the environment, or the emission, discharge, release or threatened release of pollutants, contaminants, chemicals, or industrial, toxic or hazardous substances or waste or Hazardous Materials (as defined in this Contract) into the environment (including, without limitation, ambient air, surface water, ground water or land or soil).

6.3 Environmental Compliance

The Company shall be familiar, and otherwise comply with Environmental Requirements as they apply to the erection work under this Contract unless relieved from compliance with specified Environmental Requirements identified in this Contract. Company shall furthermore notify the Owner of the need to obtain additional regulatory authorizations, including permits, prior to applying for such authorizations.

6.4 Waterways.

The Company shall observe the rules and regulations of the state, local, and federal agencies prohibiting the pollution of stream or river waters by dumping any refuse, rubbish, or debris therein.

6.5 Air Quality.

The Company shall minimize air pollution due to construction operations by using properly operating combustion emission control devices on construction vehicles and equipment, and shutting down motorized equipment not actually in use.

- 6.6 Construction Noise Control
 - 6.6.1 The Company shall use appropriate construction methods and equipment, and provide acoustical barriers if necessary so that noise emanating from tools or equipment used for performing the work will not exceed legal noise levels.
 - 6.6.2 Since all project work is to be performed between the hours of 8 a.m. and 5 p.m., The Company shall obtain the necessary permits from the appropriate agencies and make all necessary arrangements prior to commencing the project work.

7. SHORTS AND GROUNDS

- 7.1 The Company shall install temporary shorting and grounding connections between all phase conductors and shield wire and the structure grounding system, on structures selected at intervals of not more than one half (1/2) mile. Install at least one set of shorting and grounding connections on each dead-ended section of line.
- 7.2 The Company shall advise the Engineer in writing of the structure numbers on which the shorting and grounding connections have been installed and the date of their installation.
- 7.3 The shorting and grounding connections shall remain in place until the Engineer directs their removal.
- 7.4 In addition to the shorting and grounding safeguard specified, The Company shall provide and maintain all other safety grounding facilities required for execution of the project work.
- 7.5 The Company shall install grounding equipment so that wires or conductors, accessories, and hardware will not be damaged. As the shorting and grounding connections are removed, inspect the wires or conductors and accessories for damage and remove any nicks, roughness, or abrasions.
- 7.6 The Company shall install and remove temporary ground wires on a daily basis. No grounds shall be left overnight without the permission of the Project Engineer.

7.7 In addition to the shorting and grounding safeguard specified, the Company shall provide and maintain all other safety grounding facilities required for execution of the project work.

8 <u>COMPANY EQUIPMENT AND SAFETY</u>

- 8.1 The Company and any subcontractors must apply and submit an application to JEA Safety and obtain JEA Safety Certification before the Bid Opening date in order for their bid to be opened.
- 8.2 The Company and his employees shall demonstrate adequate knowledge of safety and environmental regulations.
- 8.3 Company's Equipment shall be in good condition and capable of performing this work. Company will be required to demonstrate to JEA's satisfaction that equipment being used has been completely refurbished and in good working order. Pulling rope(s) shall contain no splices and be in excellent condition. The pulling rope(s) shall be no more than five (5) years old.
- 8.4 Company shall employ adequate safety measures to ensure the safety of the job site and his employees.
- 8.5 The Company shall immediately notify the Project Engineer of any on the job injury or safety incident.
- 8.6 The Company shall identity the fire station closest to the work area and make contact with the fire station to ensure a prompt response in case of an emergency. The Company shall provide the fire station with the address and driving directions to the Companies landing zone or specified show up work area. The Company shall determine the closest fire station address, phone number and record the information as part of the daily safety (tail gate meetings) meeting notes.

9 <u>CONDITIONS FOR PERFORMING THE WORK</u>

- 9.1 Material provided by Company shall be new quality and meet all standards and codes governing the material for the type of use of the material. Miscellaneous material inhibitors, cleaning solvents, anti seize, rope, etc., required for construction shall be supplied by Company and costs of such material shall be included in the bid.
- 9.2 Access to perform all work is the responsibility of the Company.
- 9.3 Company shall be responsible at all times for providing security to the work site, equipment and materials. In addition, Company shall provide site security for Company worker safety.

10 ATTACHMENTS

- 10.1 Exhibit A Sample Work Scope and Associated Invoice Explanation.
- 10.2 Exhibit B- Sample Infra-red report from a JEA substation hot spot.
- 10.3 Exhibit C- GPS coordinates for use performing partial specified circuit inspections

11 JEA SUPPLIED PROJECT SHOW UP/MATERIAL LAY DOWN AREA'S

JEA will allow the Company to use existing transmission rights of ways in the vicinity of the project as material/lay down areas. The Company shall be responsible for keeping the areas clean of trash and debris and restore each area to "as found" condition. The Company shall provide security for all JEA issued material and is responsible for replacing stolen JEA material at the Company's expense.

JEA may request that the Company obtain permission from third parties to use their property/facilities as a helicopter landing zone and/or work area. JEA shall reimburse the Company based upon a cost plus 10% basis.

12. <u>SURFACE DAMAGE AND RESTORATION</u>

The work as specified will be performed along City, County, State, and privately owned roads, streets and highways. The Company shall repair and/or replace any disturbed or damaged surface areas. This includes, but is not limited to, ruts, grass, and concrete driveways and sidewalks.

Ruts created in JEA transmission rights of ways shall be restored to "as Found" condition by filling them with dirt.

13. Typical Work Descriptions, Helicopter and Potential Crew Staffing Recommendations (to be mutually agreed to be based upon the scope of each assigned project). Item numbers listed below correlate to items numbers on Appendix B Bid Workbook.

Helicopter Based Work Scope:	<u>Requirement</u>
1. Helicopter	MD 500 helicopter or equivalent
2. Helicopter Pilot	Pilot with power line construction experience
3. Helicopter Mechanic	Helicopter mechanic
4. Mechanic Vehicle	Vehicle with fuel saddle tank, and tools required to maintain the helicopter while mobilized
5. Helicopter Based Crew Foreman	Working Foreman with helicopter based power line construction experience
6. Crew Foreman Vehicle,	4 door, 4 wheel drive veh. used to transport the crew and haul the line crew tool trailer
7. Helicopter Based Lineman	Lineman with helicopter based power line construction experience
8 Ground Man	Ground man with helicopter based power line construction experience
9. Line Crew Tool Trailer	Multi axle enclosed trailer containing all tools and minor equipment required to perform the specified work
10 Supplemental Work Allowance	Contractor supplied specialty equipment rental or subcontracted items/services as listed in section 15 and to be determined out of scope services, if requested. This also includes JEA requested Contractor purchased material.
11. Helicopter Pilot Mobilization/Demobilization	Per occurrence is defined as one work day to travel to Jacksonville to perform the specified work and one work day to travel back to your assigned base of operation.
12. Helicopter Mechanic Mobilization/Demobilization	Per occurrence is defined as one work day to travel to Jacksonville to perform the specified work and one work day to travel back to your assigned base of operation.

13. Line Crew Foreman, Lineman and Ground Man Mobilization/Demobilization	Enter per person pricing. Lineman Crew size will be determined based upon project needs. Excludes items listed in # 11 and # 12 above. Per occurrence is defined as one work day to travel to Jacksonville to perform the specified work and one work day to travel back to your assigned base of operation.
14. Daily Storm Stand By Rate for Bid Items 1 and 2	Per occurrence is defined as one calendar day
When JEA exercises the Right of First Refusal for	to stand by until it is safe to perform storm

assessment activities.

14 PERMITS

The Company shall prepare, apply, pay fees and obtain any/all permits required to perform the work listed in this specification. This includes State of Florida permits required to fly weighted loads across or along roads.

15 SPECIALTY EQUIPMENT

Storm Damage Assessment Assistance

During the life of this project, the Company may be requested to provide specialty equipment or service for use during an assigned project. The specialty equipment or service shall be paid for based upon cost plus up to a maximum 10% mark-up for handling/coordinating the specialty equipment or service.

The specialty equipment may include, but is not limited to, the following:

X ray equipment Insulator washing equipment Infrared camera Corona camera Heavy Lift Helicopter, 22,000 lb maximum capacity Medium Lift Helicopter, 10,000 lb lift capacity

<u>16 STORM DAMAGE ASSESSMENT, STAND BY PAY AND RIGHT OF FIRST REFUSAL</u>

During the life of this project, the Company may be requested to provide a helicopter and pilot to assist JEA in performing system damage assessment activities. JEA will provide up to two (2) JEA employees who will perform damage assessments as required.

JEA reserves the "Right of First Refusal" to place a Helicopter and pilot, see bid items 1 and 2, on paid "Stand By" status before The Company offers similar services to others.

If JEA request the Company to mobilize to Jacksonville prior to a storm, JEA will reimburse the Company for the expense of placing the helicopter in a local airport hanger as a reimbursable expense.

.JEA shall immediately release the Pilot and Helicopter once assessment work has been completed unless the Helicopter and Pilot is required to perform helicopter based repairs in our system.

Addendum 4- Exhibit A

129-17 Helicopter Based Transmission and Distribution Circuit Maintenance, Construction, Inspection and Repair

Sample Work Scope and Associated Invoice Explanation

Work Scope Description: JEA has requested the services of a circuit inspection crew to visually inspect JEA transmission circuits or structures with a helicopter based inspection crew. JEA requests a helicopter, pilot, mechanic with associated fuel truck and tool trailer, and two (2) inspection crew members. The crew mobilizes to Jacksonville, works 30 hours performing circuit inspections and demobilizes from Jacksonville.

Invoice Submittal Per the Bid Form:

Sample Invoice

Sample Work Scope and Associated Invoice Explanation							
129-17 Helicopter based Transmission and Distribution Circuit Maintenance, Construction, Inspection and Repair							
BID ITEM	Estimated 3 Year	Un it	Unit Description	Requirement	Unit Price	Total Price	
	Quantity				11100		
1	30	H O U RS	Helicopter	MD500 helicopter or equivalent	\$700.00	\$21,000.00	
2	30	H O U RS	Helicopter Pilot	Pilot with Powerline Construction Experience	\$175.00	\$5,250.00	
3	30	H O U RS	Helicopter Mechanic	Helicopter Mechanic	\$50.00	\$1,500.00	
4	30		Mechanic vehicle, fuel saddle tank and tools	Mechanic vehicle, with fuel saddle tank, and tools required to repair/maintain the helicopter while it's mobilized	\$30.00	\$900.00	
5	30	H O U RS	Helicopter based Crew Foreman	Helicopter based Working Foreman	\$125.00	\$3,750.00	
6	0	H O U RS	Crew Foreman Vehicle, used to transport crew and	4 door, 4 wheel drive vehicle, used to transport the crew and haul the line crew tool trailer	\$0.00	\$0.00	

		haul the line crew tool trailer			
7	30	H Helicopter Based O Lineman U RS	Helicopter based Lineman, Lineman with helicopter based power line construction experience	\$75.00	\$2,250.00
8	0	H Groundman O U RS	Ground based employee	\$0.00	\$0.00
9	0	H Line crew tool trailer O U RS	• Line crew tool trailer including all tools and equipment required to perform the specified work.	\$0.00	\$0.00
10	0	L Supplemental Work U Allowance M P SU M	Contractor Supplied Specialty Equipment Rental or subcontracted Items/services as specified in Section 15 and to be determined out of scope services. If requested. This also includes JEA requested Contractor purchased material.	\$0.00	\$0.00
11	1	 O Helicopter Pilot C Mobilization/Demote C lization U R A N CE S 	Per occurance is defined as one i work day to travel to Jacksonville to perform the specified work and one work day to travel back to your assigned base of operation.	\$2,000.0 0	\$2,000.00
12	1		e, Per occurance is defined as one i work day to travel to Jacksonville to perform the specified work and one work day to travel back to your assigned base of operation.	\$750.00	\$750.00
13	2	 O Line Crew Foreman, C Lineman and C Groundsman U Mobilization and R /Demobilization A only. (Per Person Person Person Person) CE S 	Crew size will be determined based upon project needs. Excludes items listed in # 11 and # 12 above. Per occurance is defined	\$1,000.0 0	\$2,000.00

			to travel back to your assigned base of operation.		
14		 Daily Storm Stand By Rate for Bid items 1 and 2 when JEA exercises the R Right of First Refusal A for Storm Damage N Assessment CE Assistance S 	Per occurance is defined as one calendar day to stand by until it is safe to travel to Jacksonville to perform storm damage assessment assistance.	\$0.00	\$0.00
TOTAL Bid Price (Transfer total to Page 1 Appendix B- Bid Form)					\$39,400.00