

REQUEST FOR QUOTE
For Participation in
Northside Generating Station (NGS)
Combustion Turbine 5
Generator Boresonic Inspection

Late spring 2016 - Tentatively Outage date, June 6 thru July 3

GE Frame 7B Serial Number 237981
50 MW

for



Jacksonville, FL

REQUEST FOR QUOTE NUMBER 82647

Mandatory Pre-Bid Meeting on APRIL 4, 2016, at 10:00 a.m.

JEA Northside Generating Station
10-wide Project's Conference Room
4377 Heckscher Drive
Jacksonville, FL 32226-3009

MANDATORY SITE VISIT FOLLOWING PRE-BID MEETING:
NOTE ALL VENDORS MUST WEAR PPE EQUIPMENT.

QUESTIONS (RFQ)

All questions shall be submitted in writing to the JEA Buyer listed below at least five (5) business days prior to the Bid opening date. Questions not received five (5) days prior to the Bid opening date will not be answered.

Bids are due on APRIL 20, 2016 by 12:00 pm

JEA will publicly open all bids received from qualified Bidders on the Bid Due Date, at
2:00 p.m. Contact moorea@jea.com for bid results.

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SOLICITATION

1. SCOPE OF WORK

The Contractor (also referred to as "Company") is responsible for all supervision, technical direction, labor, materials, tools, equipment, scaffolding, enclosures, and fabrication, in the complete disassembly, inspection, repair, reassembly, and startup activities for the Northside #5 CT generator. Exceptions are items specifically stated as furnished or performed by the JEA. All work and materials as outlined in these specifications and on any accompanying drawings or documents for the disassembly, inspection and reassembly of Northside Generating Station's #5 CT generator shall be supplied.

Note that other than removal of lagging, structures, and miscellaneous parts to access the generator field, no other work is to be performed on the gas turbine or compressor itself. This scope is exclusively for generator work.

The contractor shall mobilize to site, completely disassemble, inspect, test, and reassemble the generator. Based on the results of the testing, the contractor shall provide repair recommendations and pricing.

The contractor shall remove and inspect both generator bearings to include dimensional checking and (UT) Ultrasonic testing of babbitted surfaces.

Contractor shall remove the generator field, preference is to remain on site, or load on to a truck for transport to a local facility for the boresonic inspection, receive and inspect the field, and upon completion, reinstall the field. As the preferred option, the Contractor will be allowed to transport the field to the Northside Generating Station turbine deck for testing. The turbine deck crane will be made available for loading and unloading contingent on any other work being performed at the time. The Contractor can choose to place the field on rotor stands (not supplied by JEA) or cribbing of sufficient strength and integrity (not supplied by JEA).

Late spring 2016 - Tentatively Outage date, June 6 thru July 3.

GE Frame 7B Serial Number 237981 - 50 MW

A complete scope of work and Technical Specifications are provided in Appendix A.

2. BACKGROUND

JEA owns and operates four GE Frame 7B gas turbines operating on distillate fuel at the Northside Generating Station (NGS) in Jacksonville, FL. CT 5 was manufactured with a bore in the generator field, one of the few in the 7B fleet made with a bored rotor. During an inspection in 2002 a rotor boresonic test was performed by both the OEM and a third party contractor. The rotor forging assessment indicated that the rotor was sound for continued operation until 2013 or 1500 start/stop cycles, whichever came first. In the boresonic inspection performed in 2002, the majority of the indications were found between 138" and 212" from the coupling end. The most serious flaw was found at about 182". The bore copper ends at 190", therefore the most critical flaw could be inspected even with the bore copper in place.

The results of the test indicated the unit should be tested one time. An inspection was performed again in 2007 with no change in the general rotor condition.

2.1. QUESTIONS (RFQ)

All questions shall be submitted in writing to the JEA Buyer listed below at least five (5) business days prior to the Bid opening date. Questions not received five (5) days prior to the Bid opening date will not be answered.

For Procurement Related Questions:

Buyer: Elizabeth Moore

Email: moorea@jea.com

For Technical Related Questions:

Buyer: Tim Meyers

Email: meyet@jea.com

2.2. INVITATION - REQUEST FOR QUOTE

All Bids must be made on the appropriate Bid forms as specified within this Solicitation, and emailed to **moorea@jea.com**. All Bids must reference the JEA Solicitation title and number noted above in the subject line of the email.

The Bidder shall be solely responsible for delivery of its Bid to the JEA Buyer. **Bids are due by the time and on the date listed above. ALL LATE BIDS FOR WHATEVER REASON WILL BE REJECTED.**

Please submit the Bid Form and other related documentation to:

Buyer: Elizabeth Ellis-Moore

Email: moorea@jea.com

3. SPECIAL INSTRUCTIONS

3.1. MINIMUM QUALIFICATIONS - RFQ

Bidder shall have the following Minimum Qualifications to be considered eligible to submit a Bid in response to this Request for Quote. It is the responsibility of the Bidder to ensure and certify that it meets the Minimum Qualifications. Bidders not meeting all of the following criteria will not have the Bids considered for Award.

- Bidders must have successfully completed, as Primary contractor, five (5) projects of similar size or scope within the last five years ending, January 31, 2016.
 - A similar project is defined as the disassembly, inspection, NDE, repair of components, and reassembly of a heavy industrial gas turbine of the same manufacturer and similar model (7B, C, E, EA), including the removal and/or replacement of the generator rotor or turbine or compressor rotor. At its sole discretion, JEA may consider the inspection and repair of a heavy industrial steam or other manufacturer gas turbine as suitable and equivalent experience.

Please note, any Bidder whose contract with JEA was terminated for default within the last two (2) years shall not be determined to be a responsible Bidder and their Bid will be rejected.

3.2. COMPETITIVE BIDDING - REQUEST FOR QUOTE

The Bidder shall submit its sealed Bid in response to this Solicitation no later than the Bid due date and time indicated herein. JEA will subsequently review Bids to determine if they meet the minimum qualifications as stated in this Solicitation. JEA will Award the Contract to the lowest responsive and responsible Bidder whose Bid meets or exceeds the minimum qualifications, and whose Bid Price represents the lowest cost to JEA.

NO EXCEPTIONS ARE ALLOWED IN A REQUEST FOR QUOTE. IF THE BIDDER OBJECTS IN ANY MANNER TO THE TERMS AND CONDITIONS OR TECHNICAL SPECIFICATIONS, THE OBJECTION MUST BE ADDRESSED IN WRITING FIVE (5)

BUSINESS DAYS PRIOR TO THE BID OPENING DATE, AND THE OBJECTION MAY BE ADDRESSED IN AN ADDENDUM IF JEA BELIEVES THAT A CLARIFICATION OR CHANGE IS NECESSARY. ANY MODIFICATIONS, EXCEPTIONS OR OBJECTIONS STATED WITHIN THE BID DOCUMENTS SHALL SUBJECT THE BID TO BE REJECTED.

3.3. NUMBER OF CONTRACTS TO BE AWARDED

JEA intends to Award ONE (1) Contract(s) for the Work. JEA reserves the right to Award more than one Contract based on certain groupings of the Work items, or JEA may exclude certain Work items, if JEA determines that it is in its best interest to do so.

3.4. REQUIRED FORMS TO SUBMIT WITH BID - REQUEST FOR QUOTE

To submit a Bid in response to this RFQ, all of the forms listed below must be completed and submitted as part of the Bid. The Bidder must obtain the required forms, other than the Bid Form, Bid Workbook, and the Minimum Qualification Form which is attached, by downloading them from **JEA.com**. If the Bidder fails to complete or fails to submit one or more of the required forms, the Bid shall be rejected.

The following forms are required to be submitted at the time of Bid:

- Bid Form (including acknowledgement of all addenda) - This form can be found in Appendix B.
- List of JSEB Certified Firms (if applicable)
- List of Subcontractors/Shop Fabricators (if applicable)

If the above listed forms are not submitted with the Bid by the Bid Due Time on the Bid Due Date, JEA shall reject the Bid.

JEA also requires the following documents to be submitted prior to issuance of a JEA Purchase Order or Blanket Purchase Agreement. A Bid will not be rejected if these forms are not submitted at the Bid Due Time and Date. However, failure to submit these documents prior to awarding work could result in Bid rejection.

- Conflict of Interest Certificate Form
- Insurance Certificate
- W-9
- Evidence of active registration with the State of Florida Division of Corporations (www.sunbiz.org) Any technical submittals as required by the Technical Specifications.

3.5. SAFETY QUALIFICATION REQUIREMENTS (IFB)

Company shall be approved as JEA Safety Qualified within ten (10) business days of receiving written notice from the JEA Bid Office that it is the lowest responsive and responsible Bidder. If the Company fails to obtain JEA approval as a JEA Safety Qualified Company by 4:00 p.m. Eastern time on the 10th business day, JEA will reject the Company's Bid, and proceed to Award to the next lowest responsive and responsible Bidder (Company).

JEA Safety Qualification information is available online at jea.com. Please note that it may take up to five (5) business days for a Company to be approved as JEA Safety Qualified. It is the Company's responsibility to ensure it is JEA Safety Qualified. A list of Safety Qualified vendors can be found on jea.com. For additional information, contact Jerry Fulop at (904) 665-5810.

2.5.1 TIME

In computing any period of time prescribed or allowed by this solicitation, the day of the act, event, or default from which the designated period of time begins to run shall not be included. The last day of the period so computed shall be included unless it is a Saturday, Sunday, or JEA holiday, in which event the period shall run

until the end of the next day which is neither a Saturday, Sunday, or JEA holiday.

4. GENERAL INSTRUCTIONS

4.1. ADDENDA (REQUEST FOR QUOTE)

JEA may issue Addenda prior to the Bid Due date to revise, in whole or in part, or clarify the intent or requirements of the RFQ. The Bidder shall be responsible for ensuring it has received all Addenda prior to submitting its Bid and shall acknowledge receipt of all Addenda by indicating where requested on the Bid Form. JEA will post Addenda online at jea.com. Bidder will receive and email from the Buyer with any Addenda or Bidder may obtain Addenda from the JEA website.

All Addenda will become part of the RFQ and any resulting Contract Documents. It is the responsibility of each Company to ensure it has received and incorporated all Addenda into its Bid. Failure to acknowledge receipt of Addenda may be grounds for rejection of a bid.

4.2. UNABLE TO SUBMIT A BID FORM (RFQ)

If you elect not to submit a Bid in response to this RFQ, please complete the Unable to Submit Bid Form, available for download at jea.com. Please email the completed Unable to Submit Bid Form to the JEA Buyer indicated in this RFQ. Do not return the entire RFQ package, simply return the Unable to Submit Bid Form.

4.3. ETHICS-RFQ

By signing the Bid Document, the Bidder certifies this Bid is made without any previous understanding, agreement or connection with any other person, firm, or corporation submitting a Bid for the same Work other than as a Subcontractor or supplier, and that this Bid is made without outside control, collusion, fraud, or other illegal or unethical actions. The Bidder shall comply with all JEA and City of Jacksonville ordinances, policies and procedures regarding business ethics.

The Bidder shall submit only one Bid in response to this Solicitation. If JEA has reasonable cause to believe the Bidder has submitted more than one Bid for the same Work, other than as a Subcontractor or subsupplier, JEA shall disqualify the Bid and may pursue debarment actions.

The Bidder shall disclose the name(s) of any public officials who have any financial position, directly or indirectly, with this Bid by completing and submitting the Conflict of Interest Certificate Form found at jea.com. Failure to fully complete and submit the Conflict of Interest Certificate may disqualify the Bid. If JEA has reason to believe that collusion exists among the Bidders, JEA shall reject any and all Bids from the suspected Bidders and will proceed to debar Bidder from future JEA Awards in accordance with the JEA Procurement Code.

JEA is prohibited by its Charter from awarding contracts to JEA officers or employees, or in which a JEA officer or employee has a financial interest. JEA shall reject any and all Bids from JEA officers or employees, as well as, any and all Bids in which a JEA officer or employee has a financial interest.

In accordance with Florida Statutes Sec. 287.133, JEA shall reject Bids from any persons or affiliates convicted of a public entity crime as listed on the Convicted Vendor list maintained by the Florida Department of Management Services. JEA shall not make an Award to any officer, director, executive, partner, shareholder, employee, member,

or agent active in management of the Bidder listed on the Convicted Vendor list for any transaction exceeding \$35,000 for a period of thirty-six (36) months from the date of being placed on the Convicted Vendor list.

If the Bidder violates any requirement of this clause, the Bid may be rejected and JEA may debar offending companies and persons.

4.4. EX PARTE COMMUNICATION-RFQ

Ex Parte Communication is defined as any inappropriate communication concerning a RFQ or IFB between a company submitting a Bid or Proposal and a JEA representative during the time in which the RFQ or IFB is being advertised through the time of Award. Examples of inappropriate communications include: private communications concerning the details of RFQ or IFB in which a company becomes privy to information not available to the other Bidders. Social contact between companies and JEA Representatives should be kept to an absolute minimum during the RFQ and IFB process.

Ex Parte Communication is strictly prohibited. Failure to adhere to this policy will disqualify the noncompliant company's Response. Any questions or clarifications concerning a RFQ or IFB must be sent in writing via email to the JEA Buyer at least five (5) business days prior to the opening date. If determined by JEA, that a question should be answered or an issue clarified, JEA will issue an addendum to all companies.

4.5. START OF WORK

If Bidder fails to act on a JEA issued Blanket Purchase Agreement, Purchase Order or Contract, JEA may cancel the Award with no further liability to the Company, retain the bid security or bond (if applicable), and Award to the next-ranked Company.

4.6. PUBLIC RECORDS & SUNSHINE LAW

4.7. General

Article I, Section 24, Florida Constitution, guarantees every person access to all public records and Chapter 119, Florida Statutes, provide a broad definition of public records. JEA is a body politic and corporate and subject to these laws and related statutes ("Florida's Public Records Laws"). All responses to this Solicitation are public records and available for public inspection unless specifically exempt by law.

Redacted Submissions

If a Bidder/Proposer believes that any portion of the documents, data or records submitted in response to this Solicitation are exempt from Florida's Public Records Law, Bidder must (1) clearly segregate and mark the specific sections of the document, data or records as "Confidential," (2) cite the specific Florida Statute or other legal authority for the asserted exemption, and (3) provide JEA with a separate redacted copy of its response (the "Redacted Copy"). The cover of the Redacted Copy shall contain JEA's title and number for this Solicitation and Bidder's name, and shall be clearly titled "Redacted Copy." Bidder should only redact those portions of records that Bidder claims are specifically exempt from disclosure under Florida's Public Records Laws. If Bidder fails to submit a redacted copy of information it claims is confidential, JEA is authorized to produce all documents, data and other records submitted to JEA in answer to a public records request for such information.

In the event of a request for public records to which documents that are marked as confidential are responsive, JEA will provide the Redacted Copy to the requestor. If a requestor asserts a right to any redacted information, JEA will notify Bidder that such an assertion has been made. It is Bidder's responsibility to respond to the requestor to assert that the information in question is exempt from disclosure under applicable law. If JEA becomes subject to a demand for discovery or disclosure of Bidder's redacted information under legal process, JEA shall give Bidder prompt notice of the demand prior to releasing the information (unless otherwise prohibited by applicable law.) Bidder shall be responsible for defending its determination that the redacted portions of its response are not subject to disclosure.

By submitting a response to this Solicitation, Bidder agrees to protect, defend and indemnify JEA from and against all claims, demands, actions, suits, damages, liabilities, losses, settlements, costs and expenses (including but not limited to reasonable attorney fees and costs) arising from or relating to Bidder's determination that the redacted portions of its response to this Solicitation are not subject to disclosure.

5. CONTRACT TERMS AND CONDITIONS

5.1. DEFINITIONS

5.1.1. DEFINITIONS

Words and terms defined in this section shall have the same meaning throughout all parts of this Solicitation and Contract Documents. Where intended to convey the meaning consistent with that set forth in its definition, a defined word or term is marked by initial capitalization. The "Technical Specifications" portion of this Solicitation may define additional words and terms where necessary to clarify the Work. Unless otherwise stated in this Solicitation and/or Contract Documents, definitions set forth in the "Technical Specifications" shall apply only within the "Technical Specifications."

5.1.2. ACCEPTANCE

JEA's written notice by the Contract Administrator to the Company that all Work as specified in the Contract has been completed to JEA's satisfaction. Approval or recognition of the Company meeting a Milestone or interim step does not constitute Acceptance of that portion of Work. Acceptance is only applicable to the entirety of Work as specified in the Contract. Acceptance does not in any way limit JEA's rights under the Contract or applicable laws, rules and regulations.

5.1.3. AWARD

The determination by JEA that the procurement process for the purchase of the Work was in accordance with the JEA Procurement Code and Florida Statutes. Once an Award is approved, JEA will either issue a Purchase Order, Blanket Purchase Agreement, or execute a Contract with the successful Bidder.

5.1.4. ADDENDUM/ADDENDA

A written change or changes to the Solicitation which is issued by JEA Procurement Services and is incorporated into the Solicitation as a modification, revision and/or further clarification of the intent of the Solicitation.

5.1.5. BIDDER-RFQ

The respondent to this RFQ.

5.1.6. BID PRICE

The total dollar amount of the Bidder's offer to successfully perform the Work or Services in accordance with the Contract Documents.

5.1.7. BLANKET PURCHASE AGREEMENT-RFQ

Blanket Purchase Agreement (BPA) is a method of acquiring a variety of goods when an order is issued. Once an order (herein referred to as a "Blanket Release") against a BPA is given by JEA and accepted by the Company, and enforceable contract is created.

5.1.8. PURCHASE ORDER (PO)

A commercial document issued by JEA, authorizing work, indicating types, quantities, and agreed prices for products or services the Company will provide to JEA. Sending a PO to a Company constitutes a legal offer to buy products or services. The words "Purchase Order" are clearly marked across the top, a PO number is used for reference and invoicing purposes, includes an authorized JEA signature, and states the dollar amount of the lawfully appropriated funds.

5.1.9. TASK ORDER

A document that describes the Work or describes a series of tasks that the Company will perform in accordance with the Contract Documents. A Task Order may be issued as an attachment to a Purchase Order, but the Task Order is neither a Purchase Order, nor a Notice to Proceed.

4.2. PAYMENTS

4.2.1. PAYMENT METHOD - TASK ORDER

When JEA issues a Task Order with an associated Purchase Order, the Company shall invoice JEA in accordance with the instructions set forth on the Purchase Order. JEA may pay the Company for the work described on the Task Order either upon the Company's completion of and JEA's verification of the entirety of the Task Order work, or at predetermined Milestones stated in the Task Order.

Generally once they **mobilize they want payment (20%), and once the testing(20%), and on completion (60%)**. We are only looking at twenty-one **(21) days total outage** duration.

4.2.2. DISCOUNT PRICING

JEA offers any or all of the following option payment terms, one of which may be executed at the request of the Company by sending an email to the JEA Buyer listed in this Solicitation:

- 1% 20, net 30
- 2% 10, net 30
- 3% 5, net 30

Company may request alternate payment terms for JEA's consideration, however, alternate payment terms are not effective until acceptance by JEA in writing. Please note, all payment dates are calculated from the date of the Invoice receipt by JEA's Accounts Payable.

4.2.3. INVOICING AND PAYMENT TERMS

Within sixty (60) days from completion of the Work, the Company shall submit all Invoices or Applications for Payment in accordance with the payment method agreed upon in these Contract Documents. Invoices shall be submitted to the following address:

JEA Accounts Payable
P.O. Box 4910
Jacksonville, FL 32201-4910

JEA will pay the Company the amount requested within thirty (30) calendar days after receipt of an Invoice from the Company subject to the provisions stated below.

JEA may reject any Invoice or Application for Payment within twenty (20) calendar days after receipt. JEA will return the Invoice or Application for Payment to the Company stating the reasons for rejection. Upon receipt of an acceptable revised Invoice or Application for Payment, JEA will pay the Company the revised amount within ten (10) days.

JEA may withhold payment if the Company is in violation of any conditions or terms of the Contract Documents.

In the case of early termination of the Contract, all payments made by JEA against the Contract Price prior to notice of termination shall be credited to the amount, if any, due the Company. If the parties determine that the sum of all previous payments and credits exceeds the sum due the Company, the Company shall refund the excess amount to JEA within ten (10) days of determination or written notice.

4.3. WARRANTIES AND REPRESENTATIONS

4.3.1. WARRANTY (MAINTENANCE)

The Company unconditionally warrants to JEA for a period of not less than **WARRANTY YEARS - One (1) year(s)** from the date of JEA Acceptance, that all Work furnished under the Contract, including but not limited to, materials, equipment, goods, workmanship, labor, services, and intellectual property, including derivative works shall be:

- Performed in a safe, professional and workman-like manner; and
- Free from Defects in design, material, and workmanship; and
- Fit for the use and purpose specified or referred to in the Contract; and
- Suitable for any other use or purpose as represented in writing by the Company; and
- In conformance with the Contract Documents; and
- Merchantable, new and of first-class quality.
- Conform to all applicable standards and regulations promulgated by federal, state, local laws and regulations, standards boards, organizations of the Department of State, and adopted industry association standards.

Labor/Services:

At JEA's option, if the Company performs labor/services that fails to conform to the above mentioned warranties, JEA may correct the Defect at the Company's expense if the Company fails to make the appropriate corrections within a reasonable time upon notice by JEA, or JEA may return the Work at the Company's expense and terminate the Contract.

Materials, Supplies or Goods:

At JEA's option, if the Company provides materials, supplies, or goods that fail to conform to the above mentioned warranties, JEA may correct the Defect at the Company's expense if the Company fails to make the appropriate corrections within a reasonable time upon notice by JEA, or JEA may return the Work for correction or replacement at the Company's expense, or JEA may return the Work at the Company's expense and terminate the Contract.

If, within the warranty period, JEA determines that any of the materials, supplies or goods are defective or exhibit signs of excess deterioration, the Company, at its own expense, shall repair, adjust, or replace the defective Work to the complete satisfaction of JEA. The Company shall pay all costs of removal, transportation, reinstallation, repair, and all other associated costs incurred in connection with correcting such Defects in the Work. The Company shall correct any Defects only at times designated by JEA. The Company shall extend the warranty period an additional twelve (12) months for any portion of the Work that has undergone warranty repair or replacement, but in no case shall the maximum warranty be extended beyond thirty-six (36) months.

If Work includes items covered under a manufacturer's or Subcontractor's warranty that exceeds the requirements stated herein, Company shall transfer such warranty to JEA. Such warranties, do not in any way limit the warranty provided by the Company to JEA.

JEA may repair or replace any defective Work at the Company's expense when the Company fails to correct the Defect within a reasonable time of receiving written notification of the Defect by JEA, when the Company is unable to respond in an emergency situation, or when necessary to prevent JEA from substantial financial loss. Where JEA makes repairs or replaces defective Work, JEA will issue the Company a written accounting and invoice of all such work to correct Defects.

Where spare parts may be needed, Company warrants that spare parts will be available to JEA for purchase for at least seventy-five percent (75%) of the stated useful life of the product.

The Company's warranty excludes remedy for damage or Defect caused by abuse, improper or insufficient maintenance, improper operation, or wear and tear under normal usage.

4.4. INSURANCE, INDEMNITY AND RISK OF LOSS

4.4.1. 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, 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.

4.4.2. INSURANCE

Before starting and until acceptance of the Work by JEA, and without further limiting its liability under the Contract, Company shall procure and maintain at its sole expense, insurance of the types and in the minimum amounts stated below:

Workers' Compensation

Florida Statutory coverage and Employer's Liability (including appropriate Federal Acts); Insurance Limits: Statutory Limits (Workers' Compensation) \$500,000 each accident (Employer's Liability).

Commercial General Liability

Premises-Operations, Products-Completed Operations, Contractual Liability, Independent Contractors, Broad Form Property Damage, Explosion, Collapse and Underground, Hazards (XCU Coverage) as appropriate; Insurance Limits: \$1,000,000 each occurrence, \$2,000,000 annual aggregate for bodily injury and property damage, combined single limit.

Automobile Liability

All autos-owned, hired, or non-owned; Insurance Limits: \$1,000,000 each occurrence, combined single limit.

Excess or Umbrella Liability

(This is additional coverage and limits above the following primary insurance: Employer's Liability, Commercial General Liability, and Automobile Liability); Insurance Limits: \$2,000,000 each occurrence and annual aggregate.

Company's Commercial General Liability and Excess or Umbrella Liability policies shall be effective for two years after Work is complete. The Indemnification provision provided herein is separate and is not limited by the type of insurance or insurance amounts stated above.

Company shall specify JEA as an additional insured for all coverage except Workers' Compensation and Employer's Liability. Such insurance shall be primary to any and all other insurance or self-insurance maintained by JEA. Company shall include a Waiver of Subrogation on all required insurance in favor of JEA, its board members, officers, employees, agents, successors and assigns.

Such insurance shall be written by a company or companies licensed to do business in the State of Florida and satisfactory to JEA. Prior to commencing any Work under this Contract, certificates evidencing the maintenance of the insurance shall be furnished to JEA for approval. Company's and its subcontractors' Certificates of Insurance shall be mailed to JEA (Attn. Procurement Services), Customer Care Center, 6th Floor, 21 West Church Street, Jacksonville, FL 32202-3139.

The insurance certificates shall provide that no material alteration or cancellation, including expiration and non-renewal, shall be effective until 30 days after receipt of written notice by JEA.

Any subcontractors of Company shall procure and maintain the insurance required of Company hereunder during the life of the subcontracts. Subcontractors' insurance may be either by separate coverage or by endorsement under insurance provided by Company. Note: Any JSEB firms identified by Bidders for this Solicitation are considered "Subcontractors" under the direct supervision of the Prime or General Contractor (herein referred to as "Company"). Companies should show good faith efforts in providing assistance to JSEB firms in the securing of the Subcontractors' insurance requirements stated herein. Company shall submit subcontractors' certificates of insurance to JEA prior to allowing Subcontractors to perform Work on JEA's job sites.

4.4.3. TITLE AND RISK OF LOSS

Ownership, risks of damage to or loss of the Work shall pass to JEA upon Acceptance. 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, 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.

4.5. TERM AND TERMINATION

4.5.1. TERM OF CONTRACT - THROUGH COMPLETION OF WORK

The Contract shall be in force through completion of all Work, Acceptance and final payment, including resolution of all disputes, claims, or suits, if any. Certain provisions of this Contract may extend past termination including, but not limited to, Warranty and Indemnification provisions.

This Contract, after the initial year, shall be contingent upon the existence of lawfully appropriated funds for each subsequent year of the Contract.

4.5.2. TERMINATION FOR CONVENIENCE

JEA shall have the absolute right to terminate the Contract in whole or part, with or without cause, at any time after the Award effective date upon written notification of such termination.

In the event of termination for convenience, JEA will pay the Company for all disbursements and expenses that the Company has incurred, or has become obligated prior to receiving JEA's notice of termination.

Upon receipt of such notice of termination, the Company shall stop the performance of the Work hereunder except as may be necessary to carry out such termination and take any other action toward termination of the Work that JEA may reasonably request, including all reasonable efforts to provide for a prompt and efficient transition as directed by JEA.

JEA will have no liability to the Company for any cause whatsoever arising out of, or in connection with, termination including, but not limited to, lost profits, lost opportunities, resulting change in business condition,

except as expressly stated within these Contract Documents.

4.5.3. TERMINATION FOR DEFAULT

JEA may give the Company written notice to discontinue all Work under the Contract in the event that:

- The Company assigns or subcontracts the Work without prior written permission;
- Any petition is filed or any proceeding is commenced by or against the Company for relief under any bankruptcy or insolvency laws;
- A receiver is appointed for the Company's properties or the Company commits any act of insolvency (however evidenced);
- The Company makes an assignment for the benefit of creditors;
- The Company suspends the operation of a substantial portion of its business;
- The Company suspends the whole or any part of the Work to the extent that it impacts the Company's ability to meet the Work schedule, or the Company abandons the whole or any part of the Work;
- The Company, at any time, violates any of the conditions or provisions of the Contract Documents, or the Company fails to perform as specified in the Contract Documents, or the Company is not complying with the Contract Documents;
- The Company attempts to willfully impose upon JEA items or workmanship that are, in JEA's sole opinion, defective or of unacceptable quality;
- The Company breaches any of the representations or warranties;
- The Company is determined, in JEA's sole opinion, to have misrepresented the utilization of funds or misappropriate property belonging to JEA; or
- Any material change in the financial or business condition of the Company.

If within fifteen (15) days after service of such notice upon the Company an arrangement satisfactory to JEA has not been made by the Company for continuance of the Work, then JEA may declare Company to be in default of the Contract.

Once Company is declared to be in default, JEA will charge the expenses of completing the Work to the Company and will deduct such expenses from monies due, or which at any time thereafter may become due, to the Company. If such expenses are more than the sum that would otherwise have been payable under the Contract, then the Company shall pay the amount of such excess to JEA upon receipt of notice of the expenses from JEA. JEA shall not be required to obtain the lowest price for completing the Work under the Contract, but may make such expenditures that, in its sole judgment, shall best accomplish such completion. JEA will, however, make reasonable efforts to mitigate the excess costs of completing the Work.

The Contract Documents shall in no way limit JEA's right to all remedies for nonperformance provided under law or in equity, except as specifically set forth herein. In the event of termination for nonperformance, the Company shall immediately surrender all Work records to JEA. In such a case, JEA may set off any money owed to the Company against any liabilities resulting from the Company's nonperformance.

JEA has no responsibility whatsoever to issue notices of any kind, including but not limited to deficient performance letters and scorecards, to the Company regarding its performance prior to default by Company for performance related issues.

JEA shall have no liability to the Company for termination costs arising out of the Contract, or any of the Company's subcontracts, as a result of termination for default.

4.5.4. MISCELLANEOUS PROVISION

4.5.4.1. JEA ACCESS BADGES

If the scope of work described in this Contract requires a Company to access JEA facilities, each Company employee shall apply for a JEA access badge through JEA's Security Department. An appointment to obtain a JEA access badge can be made by contacting JEA Security at securitybadge@jea.com. Finally, JEA does not

allow Company employees to share JEA access badges. A Company whose employees are found to be sharing JEA access badges, will result in the Contract being terminated immediately for default. Additionally, JEA shall be notified within six (6) hours of a lost or stolen JEA security badge or when an employee leaves the Company. Report badge termination notifications to JEA Security at (904) 665-8200.

4.5.4.2. CHANGE IN SCOPE OF SERVICES

From time to time, JEA may direct changes and modifications in the scope of the services, as contained in the Contract Documents, to be performed under this Contract as may be necessary to carry out the purpose of this Contract. The Company is willing and agreeable to accommodate such changes, provided it is compensated for additional services in accordance with its professional fees and expenses under the terms of this Contract. Such changes shall be in the form of a written amendment to this Contract reflecting, as appropriate, an amendment to the Work rendered and adjustment to Company's professional fees, including an extension to the duration of this Contract, as well as the maximum indebtedness of JEA. Maximum indebtedness is the maximum total cost that may be paid to the Company hereunder, including travel related costs, per year during the initial term of the Contract for the Work rendered under the terms of this Contract. The JEA Representative directly responsible for each project will make the final determination as to whether any compensable change exists.

4.5.4.3. JEA CRITICAL INFRASTRUCTURE PROTECTION (CIP)

Pursuant to federal regulations, JEA is required to implement Critical Infrastructure Protection (CIP) and comply with NERC/FERC reliability standards for identified assets (collectively the Assets). Assets can be defined as either physical or cyber that are essential for JEA to maintain the integrity of the bulk electric system. Therefore, a Company that requires access to the Assets shall require that each of its employees, who require unescorted access apply for a JEA access badge through JEA's Security Department. Depending on which Assets a Company must access will determine the specific training and/or personal background screenings that will be required before a JEA badge can be issued. JEA will pay for reasonable costs associated with initial background screenings and training for required Company employees. However, if an initial screening is failed, the Company will be responsible for the cost of that screening and for additional screening costs related to Company employee turnover. An appointment to obtain a JEA access badge can be made by contacting JEA Security at securitybadge@jea.com.

Finally, all badges are for assigned individual use only and JEA does not allow Company employees to share JEA access badges. A Company, whose employees are found to be sharing JEA access badges, may result in the Contract being terminated for default. Additionally, JEA shall be notified within six (6) hours of a lost or stolen JEA security badge or when an employee leaves the Company and Company should bear the cost of replacement security badge. Report badge termination notifications to JEA Security at (904) 665-8200.

The language in the above paragraphs shall also apply to Company's Subcontractors, and shall be included in Company's contracts with its Subcontractors for Work or Services to be performed at JEA or SJRPP Facilities

JEA reserves the right to modify these terms if the applicable regulations change or additional regulations become applicable. JEA will provide sufficient notice in advance for Company to adapt the updated regulations

4.5.4.4. AMENDMENTS (REQUEST FOR QUOTE)

Acceptance of a revised JEA Blanket Agreement, Purchase Order or Contract Amendment by the Company shall serve as acceptance of the Amendment to the Work.

4.5.4.5. ASSIGNING OF CONTRACT

Each party agrees that it shall not assign, delegate, or otherwise dispose of the Contract, the duties to be performed under the Contract, or the monies to become due under the Contract without the other party's prior written consent.

The assignment of the Contract will not relieve either of the parties of any of its obligations until such obligations have been assumed in writing by the assignee. If the Contract is assigned by either of the parties, it will be binding upon and will inure to the benefit of the permitted assignee. The Company shall be liable for all acts and omissions of its assignee or its Subcontractor.

4.5.4.6. CONFIDENTIALITY & PUBLIC RECORDS

LAWS

Access to Public Records

All Documents, data and other records received by JEA in connection with the Contract are public records and available for public inspection unless specifically exempt by law. The Company shall allow public access to all documents, data and other records made or received by the Company in connection with the Contract unless the records are exempt from Section 249(a) of Article I of the Florida Constitution or subsection 119.07(1), Florida Statutes. JEA may unilaterally terminate the Contract of the Company refuses to allow public access as required under the Contract.

Redacted copies of Confidential Information

If the Company believes that any portion of any documents, data or other records submitted to JEA are exempt from disclosure under Chapter 119, Florida Statutes, the Florida Constitution and related laws ("Florida's Public Records Laws"), Company must (1) clearly segregate and mark the specific sections of the document, data and records as "Confidential", (2) cite the specific Florida Statute or other legal authority for the asserted exemption, and (3) provide JEA with a separate redacted copy of the documents, data, or records (the "Redacted Copy"). The Redacted Copy shall contain JEA's contract name and number, and shall be clearly titled "Redacted Copy". Bidder should only redact those portions of records that Bidder claims are specifically exempt from disclosure under Florida's Public Records Laws. If the Company fails to submit a redacted copy of documents, data, or other records it claims is confidential, JEA is authorized to produce all documents, data, and other records submitted to JEA in answer to a public records request for these records.

Request for Redacted Information

In the event of a public records or other disclosure request under Florida's Public Records Laws or other authority to which the Company's documents, data or records are responsive, JEA will provide the Redacted Copy to the requestor. If a Requestor asserts a right to any redacted information, JEA will notify the Company that such an assertion has been made. It is the Company's responsibility to respond to the requestor to assert that the information in questions is exempt from disclosure under applicable law. If JEA becomes subject to a demand for discovery or disclosure of the redacted information under legal process, JEA shall give the Company prompt notice of the demand prior to releasing the redacted information (unless otherwise prohibited by applicable law). The Company shall be responsible for defending its determination that the redacted portions of the information are not subject to disclosure.

Indemnification for Redacted Information

The Company shall protect, defend, and indemnify JEA from and against all claims, demands, actions, suits, damages, liabilities, losses, settlements, judgments, costs, and expenses (including but not limited to reasonable attorney's fees and costs) arising from or relating to the Company's assertion that all or any portion of its information is not subject to disclosure.

Public Records Clause for Service Contracts

If, under the Contract, the Company is providing services and is acting on behalf of JEA as contemplated by subsection 119.011(2), Florida Statutes, the Company shall:

1. Keep and maintain public records that ordinarily and necessarily would be required by JEA in order to perform service;

2. Provide the public with access to public records on the same terms and conditions that JEA would provide the records and at a cost that does not exceed the cost provided in Chapter 119, Florida Statutes, or otherwise prohibited by law;
3. Ensure that public records that are exempt or confidential and exempt from public records disclosure requirements are not disclosed except as authorized by law; and
4. Meet all requirements for retaining public records and transfer, at no cost, to JEA all public records in possession of the Company upon termination of the contract and destroy any duplicate public records that are exempt or confidential and exempt from public records disclosure requirements. All records stored electronically shall be provided to JEA in a format that is compatible with the information technology systems of JEA.

4.5.4.7. NONEXCLUSIVE

Notwithstanding anything contained herein that may appear to be the contrary, this Contract is "non-exclusive" and JEA reserves the right, in its sole discretion, to retain other companies to perform the Work, and/or JEA may self-perform the Work itself.

4.5.4.8. APPLICABLE STATE LAW; VENUE; SEVERABILITY

The rights, obligations and remedies of the parties as specified under the Contract will be interpreted and governed in all respects exclusively by the laws of the State of Florida without giving effect to the principles of conflicts of laws thereof. Should any provision of the Contract be determined by the courts to be illegal or in conflict with any law of the State of Florida, the validity of the remaining provisions will not be impaired. Litigation involving this Contract or any provision thereof shall take place in the State or Federal Courts located exclusively in Jacksonville, Duval County, Florida.

5. TECHNICAL SPECIFICATIONS/DETAILED SCOPE OF WORK

Technical Specification can be found in Appendix A – Technical Specifications.

6. FORMS

6.1. FORMS (APPENDIX B)

Forms required to be submitted with this solicitation are provided in Appendix B or can be obtained on the JEA website at www.jea.com.

APPENDIX A - TECHNICAL SPECIFICATIONS
RFQ - 82647 – Northside Generating Station (NGS)
Combustion Turbine 5
Generator Boresonic Inspection

1. SCOPE OF WORK

The Contractor is responsible for all supervision, technical direction, labor, materials, tools, equipment, scaffolding, enclosures, and fabrication, in the complete disassembly, inspection, repair, reassembly, and startup activities for the Northside #5 CT generator. Exceptions are items specifically stated as furnished or performed by the JEA. All work and materials as outlined in these specifications and on any accompanying drawings or documents for the disassembly, inspection and reassembly of Northside Generating Station's #5 CT generator shall be supplied.

Note that other than removal of lagging, structures, and miscellaneous parts to access the generator field, no other work is to be performed on the gas turbine or compressor itself. This scope is exclusively for generator work.

The contractor shall mobilize to site, completely disassemble, inspect, test, and reassemble the generator. Based on the results of the testing, the contractor shall provide repair recommendations and pricing.

The contractor shall remove and inspect both generator bearings to include dimensional checking and UT testing of babbitted surfaces.

Contractor shall remove the generator field, Preference is to remain on site, or load on to a truck for transport to a local facility for the boresonic inspection, receive and inspect the field, and upon completion, reinstall the field. As the preferred option, the contractor will be allowed to transport the field to the Northside Generating Station turbine deck for testing. The turbine deck crane will be made available for loading and unloading contingent on any other work being performed at the time. The contractor can choose to place the field on rotor stands (not supplied by JEA) or cribbing of sufficient strength and integrity (not supplied by JEA).

Late spring 2016 - Tentatively Outage date, June 6 thru July 3.

GE Frame 7B Serial Number 237981 - 50 MW

2. BACKGROUND

JEA owns and operates four GE Frame 7B gas turbines operating on distillate fuel at the Northside Generating Station (NGS) in Jacksonville, FL. CT 5 was manufactured with a bore in the generator field, one of the few in the 7B fleet made with a bored rotor. During an inspection in 2002 a rotor boresonic test was performed by both the OEM and a third party contractor. The rotor forging assessment indicated that the rotor was sound for continued operation until 2013 or 1500 start/stop cycles, whichever came first. In the boresonic inspection performed in 2002, the majority of the indications were found between 138" and 212" from the coupling end. The most serious flaw was found at about 182". The bore copper ends at 190", therefore the most critical flaw could be inspected even with the bore copper in place.

The results of the test indicated the unit should be tested periodically. An inspection was performed again in 2007 with no change in the general rotor condition.

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3. PROJECT MANAGEMENT CLARIFICATIONS/REQUIREMENTS

Bidder Submittal requested by JEA after (RFQ) awarded

The awarded bidder must submit the following within five (5) business days if requested by JEA.

- Bidder shall provide an electronic copy of the Bidder's corporate quality control manual for verification by JEA.
- Bidder shall supply a narrative work plan, accompanied by a preliminary procurement and construction schedule, including manpower loadings and project milestone dates.

Schedule and Time Frame of Work

The disassembly will begin June 6th, 2016 and the contractor will be given twenty-seven (27) days to disassemble, perform inspections, NDE/NDT, and repair generator components, and assemble the unit. Estimated out completion is July 3rd, 2016.

Schedule

Bidder shall furnish a draft detailed construction schedule and narrative of the construction plan in Bidder's proposal. The construction plan shall include a plan for the detailed scope and shall highlight critical construction activities. The first update of the construction schedule shall be within 1 week after contract award. Updates shall be provided to the JEA Project/Construction Manager on a weekly basis, as a minimum, after mobilization on site.

Project Meetings

Once Contractor has mobilized to Jobsite, Owner and Contractor representatives shall meet Monday, Wednesday, and Friday (or similar schedule) each week to review the Work progress and update the Work completion schedule. Contractor's representative shall present the following:

- Safety and Quality Control issues
- Current status of the job progress
- Review of daily log and activities to date
- Detailed one (1) week look-ahead schedule (see below)
- Current and projected manpower
- The material delivery and receiving status
- Any changes in the Work
- Problem areas or concerns
- Contractor shall keep meeting minutes and distribute to the participants.
- Contractor's one (1) week look-ahead schedule shall:
 - Indicate all planned work that is to be accomplished during the current week and the next week period in support of, and in accordance with, Contractor's detailed Construction Schedule
 - Be personnel-loaded
 - Reflect the planned and actual activities of the previous week
 - Include any activities that are required to be accomplished by others that would impact and/or prevent Contractor from starting and/or accomplishing its planned work.

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Project Coordination Responsibilities

During the installation of this project, JEA will continue to operate the Northside facility and other auxiliary equipment at the Northside Generating Station. Contractor's work shall not interfere with the operation of JEA's operating equipment or the work of the Plant's operating personnel.

Contractor shall also consider that both JEA maintenance forces and other contractors may be working in the combustion turbine areas during this outage condition. Contractor shall cooperate with these other work forces at the direction of JEA to insure the scheduled work completion dates are met.

Project Scope of Work Clarifications

JEA has a contractor onsite support that could help provide scaffolding and safety barriers as required for the awarded Contractor's scope of work. Scaffolding and Safety barriers shall be the responsibility of the Contractor. Contact information is available upon request.

The Shop repair estimate will be based on all parts being a **medium repair**, some may fall out as a light repair and a few may fall into a heavy repair. We expect that the bidding will be at the medium and the total repair will washout the overall cost. If parts are not repairable and have to be replaced then justification will be agreed between JEA and the Contractor before proceeding.

Contractor shall provide all tools, special tools, equipment, compressed air, dry storage, office, change room facilities, and Crane, fork truck, vehicles to perform all phases of the work.

Contractor shall be responsible for the procurement of all permanent materials, (ie, gaskets, seals, replacement/damaged bolting, Heli-coils, etc.), this includes freight to the site and unloading and/or storage. Contractor shall be responsible for the procurement of all materials (permanent or temporary) needed for the proper installation of the Work.

Contractor shall provide all craft labor required to complete the work, including support crafts as required.

Drinking water and ice, hand washing stations, and break area shall be the Contractor's responsibility. Reuse water shall not be used.

JEA will provide limited compressed air and electrical power for Contractor's use.

JEA will provide 110V - 20 Amp, I - Ph and 480V - 60 Amp, 3 - Ph electrical power in the boiler area. Contractor shall be responsible for any additional power requirements. It shall be the responsibility of Contractor to make electrical connections, and supply any electrical connectors to make these connections. All connections shall be approved by the JEA Project/Construction Manager, prior to progressing with this work. Any additional construction lighting required to perform the work shall be provided by Contractor.

It shall be the responsibility of Contractor to disconnect/reinstall/replace any piping, structure, wiring, conduit, instrumentation, insulation, lagging, thermocouples, instrument tubing or related items which were removed by Contractor to aid him in his work; however, Contractor shall not de-energize/energize

APPENDIX A - TECHNICAL SPECIFICATIONS
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any station electrical or mechanical system. This shall be done in accordance with JEA Lockout/Tagout procedures and coordinated through the JEA Project/Construction Manager.

Isolating and tagging out (LOTO) of equipment prior to work by Contractor shall be coordinated through the JEA Project/Construction Manager and conducted by the operations group of NGS. JEA NGS does not allow Contractor to sign onto LOTO in the system; a LOTO procedure will cover the contractor to Project Management as a clearance.

Contractor shall provide transportation from Contractors' parking to and from work location for craft personnel (0.7mi. in each direction. Contractor is limited to two (2) vehicles on the Plant site. Additional vehicles will only be allowed on a special need basis and only with prior approval by the JEA Project/Construction Manager.

Removal and reinstallation of any equipment or platform to gain safe access to work area shall be the responsibility of Contractor. Removal of structural members will not be allowed without approval of the JEA Project/Construction Manager. Also, all removal must be agreed upon prior to commencement of work to insure proper Lockout/Tagout protocol and available access to necessary areas for plant personnel.

Clean Up

JEA will provide designated general trash dumpsters; JEA will empty the dumpsters as requested by the Contractor or will provide alternative dump area if dumpsters are not available, such as during weekends or holidays when dumpster service may not be available.

Contractor shall clean up all work areas on a daily basis. Contractor shall employ at least one clean-up laborer for every eight craftsmen on site. A final "top to bottom" clean up shall be performed at the completion of work to be approved by the JEA Project/Construction Manager.

3.1. Generator Rotor Boresonic Inspection

The boresonic inspection shall include at a minimum the following:

- a. Mobilize manpower and bore preparation/inspection equipment to site.
- b. Remove the turbine end bore plug.
- c. Take bore measurements before and after honing to assist in final bore evaluation calculations and evaluate for creep.
- d. Install an anti-contamination plug at the bore copper end.
- e. Hone bore in preparation for boresonic inspection.
- f. Visually inspect the rotor bore.
- g. Perform magnetic particle inspection of the rotor bore surface.
- h. Perform an ultrasonic examination using a computerized ultrasonic flaw detection system to cover a radial depth range from the bore surface out to at least eight inches.
- i. Provide a site report and perform preliminary boresonic assessment.
- j. If final engineering is not being performed on site, transmit NDE data for engineering analysis.
- k. Perform a detailed engineering analysis for a final rotor disposition. The evaluation shall include fracture mechanics, FEA, thermal and rotor dynamic analyses as needed.

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- l. Final rotor disposition to be performed within 5 days of completion of onsite testing.
- m. Reverse engineer the turbine end bore plug.
- n. Manufacture and install a new bore plug.
- o. Provide generator rotor assessment report with recommendations.
- p. All final and raw data to be supplied to the JEA upon completion of testing. Copies of all engineering analysis to be supplied to JEA upon completion of analysis.

The contractor shall provide a price option for removal of bore copper in order to perform the boresonic. The above scope is assumed to be performed with rotor bore copper in place.

4. GENERATOR AND EXCITER INSPECTION AND REPAIR

As part of the scope of work, the contractor shall provide separate price option for the generator and exciter work detailed in this section:

The contractor shall perform the following insulation testing and integrity evaluation on this generator and exciter, electrically and mechanically prior to or during the disassembly of the generator and exciter. An electrical and mechanical report with repair recommendations shall be submitted to the JEA Project Manager within three (3) calendar days after completion of the testing. A daily written report of the results of testing and inspections performed that day shall be submitted to the JEA Construction manager.

4.1. Generator Stator Electrical Tests

- a. Megger and Polarization Index
- b. DC Maintenance over potential – levels of the DC hi-pot to be specified by the project manager at the time of testing
- c. Dielectric Absorption
- d. DC Leakage
- e. Insulation resistance
- f. Phase resistance measurements
- g. Through bolt Insulation resistance (if applicable)
- h. RTD or TC insulation resistance
- i. RTD Resistance measurements or thermocouple continuity test

4.2. Generator Mechanical Inspections

- a. Visually inspect the condition of the stator winding and internal cleanliness
- b. Inspect Stator components (including series / phase connections) for dusting, greasing or looseness
- c. Inspect blocking, ties, axial supports and end winding support hardware for looseness
- d. Inspect stator core and laminations for migration of core damage
- e. Perform wedge tightness evaluation and mapping
- f. Condition assessment of high voltage leads or bushings
- g. Condition assessment of welds and frame end winding region

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4.3. Generator Field Electrical testing

- a. Megger and Polarization index
- b. DC resistance
- c. Impedance check
- d. Pole balance

4.4. Generator Field Mechanical tests (upon disassembly)

- a. Condition assessment of rotating Parts
- b. Visual inspection for signs of over heating
- c. Slot wedge migration
- d. Collector ring assessment
- e. Ventilation holes
- f. Evidence of fretting or movement
- g. Condition of retaining rings
- h. Visual inspection of windings under Retaining rings
- i. Internal cleanliness
- j. Air or nitrogen test for leakage of seal assemblies
- k. Journal diameters and seal diameters

4.5. Static Exciter

- a. Disconnect exciter leads
- b. Inspect and check the points
- c. Inspect and check the transformer
- d. Inspect and check the voltage
- e. Inspect and check the SCRs
- f. Inspect and check the rectifiers
- g. Inspect and check the diode bridge
 - i. Remove, test and reinstall all diodes in rack
 - ii. Clean buss bars and diode rack – check for damage
- h. Check voltage regulator for proper operations – clean and repair as needed
- i. Knife switches – clean terminals – clean of debris
- j. Visually inspect and replace any wires showing damage (frayed insulation, damaged wire, etc.)
- k. Replace heaters and high temperature cable as needed
- l. Check transformers – clean and repair terminals
- m. Replace all air filters

5. MISCELLANEOUS

Based on the results of any testing and inspection performed, the contractor shall provide to the JEA Project Manager a complete detailed scope of work, schedule and lump sum pricing for repair or

APPENDIX A - TECHNICAL SPECIFICATIONS
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replacement of the generator and exciter components. The Contractor shall be responsible for all generator repairs agreed upon by the JEA Construction Manager.

Upon completion of all inspections and agreed to repairs, the Contractor shall reinstall the generator field and align to the gas turbine. Coupling alignment data shall be taken prior to disassembly and the Contractor shall align the field in accordance to GE's recommended alignment criteria, unless JEA engineering approves of another criteria.

As part of the scope of work, the contractor shall provide a detailed schedule in Microsoft Project showing manpower and resource loading, daily or hourly activities, and identification of critical path(s). Scaffolding and Safety barriers shall be the responsibility of the Contractor; JEA has a contractor onsite support that could help provide scaffolding and safety barriers as required for the awarded Contractor's scope of work. The Contractor shall provide all tools, special tools, equipment, compressed air, dry storage, office, change room facilities, and adequate capacity crane, fork truck, vehicles to perform all phases of the work. The Contractor shall provide all craft labor required to complete the work. The contractor shall be responsible for removing and installing bore plugs.

APPENDIX B MINIMUM QUALIFICATIONS FORM

**RFQ – 82647 – Northside Generating Station (NGS)
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GENERAL

THE MINIMUM QUALIFICATIONS SHALL BE SUBMITTED ON THIS FORM. IN ORDER TO BE CONSIDERED A QUALIFIED BIDDER BY JEA YOU MUST MEET THE MINIMUM QUALIFICATIONS LISTED BELOW, AND BE ABLE TO PROVIDE ALL THE SERVICES LISTED IN THIS SOLICITATION.

THE BIDDER MUST COMPLETE THE BIDDER INFORMATION SECTION BELOW AND PROVIDE ANY OTHER INFORMATION OR REFERENCE REQUESTED. THE BIDDER MUST ALSO PROVIDE ANY ATTACHMENTS REQUESTED WITH THIS MINIMUM QUALIFICATIONS FORM.

PLEASE SUBMIT THE ORIGINAL AND TWO (2) COPIES OF THIS FORM AND ANY REQUESTED ADDITIONAL DOCUMENTATION WITH THE BID SUBMISSION.

BIDDER INFORMATION

COMPANY NAME: _____

BUSINESS ADDRESS: _____

CITY, STATE, ZIP CODE: _____

TELEPHONE: _____

FAX: _____

E-MAIL: _____

PRINT NAME OF AUTHORIZED REPRESENTATIVE: _____

SIGNATURE OF AUTHORIZED REPRESENTATIVE: _____

NAME AND TITLE OF AUTHORIZED REPRESENTATIVE: _____

MINIMUM QUALIFICATIONS:

- Bidders must have have successfully completed, as Primary contractor, five (5) projects of similar size or scope within the last five years ending, January 31, 2016.
 - A similar project is defined as the disassembly, inspection, NDE, repair of components, and reassembly of a heavy industrial gas turbine of the same manufacturer and similar model (7B, C, E, EA), including the removal and/or replacement of the generator rotor or turbine or compressor rotor. At its sole discretion, JEA may consider the inspection and repair of a heavy industrial steam or other manufacturer gas turbine as suitable and equivalent experience.

APPENDIX B
BID FORM FOR SOLICITATION 82647
NORTHSIDE GENERATING STATION (NGS)
Combustion Turbine 5
Generator Boresonic Inspection

E-mail an **original and two (2) copies** along with other required forms to: JEA Procurement Dept., attn.: moorea@jea.com.

Company Name: _____

Company's Address _____

Phone Number: _____ FAX No: _____ Email Address: _____

<u>BID SECURITY REQUIREMENTS</u> <input type="checkbox"/> None required <input type="checkbox"/> Certified Check or Bond (Five Percent (5%))	<u>TERM OF CONTRACT</u> <input checked="" type="checkbox"/> One Time Purchase <input type="checkbox"/> Annual Requirements <input type="checkbox"/> Other, Specify- Project Completion
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<u>SAMPLE REQUIREMENTS</u> <input checked="" type="checkbox"/> None required <input type="checkbox"/> Samples required prior to Bid Opening <input type="checkbox"/> Samples may be required subsequent to Bid Opening	<u>SECTION 255.05, FLORIDA STATUTES CONTRACT BOND</u> <input checked="" type="checkbox"/> None required <input type="checkbox"/> Bond required 100% of Bid Award
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<u>QUANTITIES</u> <input type="checkbox"/> Quantities indicated are exacting <input checked="" type="checkbox"/> Quantities indicated reflect the approximate quantities to be purchased Throughout the Contract period and are subject to fluctuation in accordance with actual requirements.	<u>INSURANCE REQUIREMENTS</u> <p style="text-align: center;">Insurance required</p>
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<u>PAYMENT DISCOUNTS</u> <input type="checkbox"/> 1% 20, net 30 <input type="checkbox"/> 2% 10, net 30 <input type="checkbox"/> 3% 5, net 30 <input type="checkbox"/> Other _____ <input type="checkbox"/> None Offered	
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#	ENTER YOUR BID FOR THE RFQ 82647 SERVICES	Lump Sum for 1 TIME Inspection
	TOTAL BID PRICE	\$

BIDDER'S CERTIFICATION

By submitting this Bid, the Bidder certifies that it has read and reviewed all of the documents pertaining to this Solicitation, that the person signing below is an authorized representative of the Bidder's Company, that the Company is legally authorized to do business in the State of Florida, and that the Company maintains in active status an appropriate contractor's license for the work (if applicable). The Bidder also certifies that it complies with all sections (including but not limited to Conflict Of Interest and Ethics) of this Solicitation, and that the Bidder is an authorized distributor or manufacturer of the equipment that meets the Technical Specifications stated herein.

We have received addenda _____

Handwritten Signature of Authorized Officer of Company or Agent Date

_____ through _____

Printed Name and Title