Technical Specifications
Electric Plant Scaffolding Services

1.0 SCOPE OF WORK

1.1. The intent of this Bid Solicitation is to obtain an independent Contractor to provide scaffolding services for electric plant outage and non-outage work. The scaffolding to be erected will be used for the purpose of repairs, testing, inspection, or replacement of generating station components. Completion of projects within the estimated time periods is critical and the Contractor is to understand that increased staffing and extra work shifts may be required to complete specific projects.

1.2. The Scope of Work shall include, but not be limited to, furnishing of all supervision, labor, materials, tools, supplies, drayage, consumables, and equipment necessary to receive, unload, relocate, store (if needed), erect, test, remove, and perform any other associated operations for all materials, structures, equipment, and accessories as described herein.

1.3. The Scope of Work will be divided into two categories: **Specific** and **Non-Specific**. Both categories will utilize Lump Sum pricing for the work. Specific scaffold work is outlined in Section 8.0 below, while Non-Specific scaffold work is outlined in Section 9.0.

2.0 ELECTRIC PLANT LOCATIONS

2.1 The list of JEA electric plant locations is listed below. All plant facilities are located within Duval County in Jacksonville, Florida.

Plant Locations

2.1.1 Northside Generating Station (NGS)
4377 Heckscher Drive
Jacksonville, FL 32226

2.1.2 Brandy Branch Generating Station (BBGS)
15701 West Beaver Street
Jacksonville, FL 32234

2.1.3 Kennedy Generating Station (KGS)
4215 Talleyrand Avenue
Jacksonville, FL 32206

2.1.4 Greenland Energy Center (GEC)
6850 Energy Center Drive
Jacksonville, FL 32256

3.0 GENERAL REQUIREMENTS

3.1 All scaffold erection services shall be accomplished utilizing standard industry procedures and practices. Workmanship will be performed in accordance with all applicable Federal and State regulations and per the conditions set forth within these guidelines.

3.2 Contractor shall employ skilled labor capable of performing the kind of work assigned. All workers employed by the Contractor shall have thorough knowledge of their craft and have experience in an industrial environment. Any worker employed by the Contractor who exhibits inadequate experience, or inability in their field, shall be discharged at the discretion of the JEA Project Representative. Contractor shall maintain documentation verifying employees' skills in the form of resumes, certifications, training, etc., which will document an employee's ability in their field(s). Documentation will be made available to the JEA Project Representative upon request.

3.3 The selected Scaffolding Contractor, shall be qualified to perform all aspects of scaffolding work to include swing stages/ski climbers. All scaffolding/swing stage platforms shall be erected in accordance with ANSI, Scaffolding Training Institute, OSHA, JEA Contractor Safety requirements and the JEA Site Specific safety requirements.

3.4 Contractor shall not initiate 'out of scope' services without obtaining prior authorization from the JEA Project Representative. For example, if during the course of the Work, a potential problem or issue is identified by the Contractor, the JEA Project Representative shall be notified immediately of the problem/issue and may then initiate an authorization to the Contractor for 'out of scope' services.

3.5 Contractor shall comply with all Federal, State, and Local industrial safety rules, regulations, codes, and standards. Contractor shall also abide by all JEA Safety and Security Policies and Procedures, as a minimum requirement.

3.6 Pricing of all work shall be based on the Specific and Non-Specific unit prices submitted in the Respondent Rates Workbook.

3.7 Contractor will not be required to provide an onsite office, but space can be provided for a temporary office trailer. The Contractor shall be entirely responsible for any and all costs associated with this type of arrangement.

3.8 JEA will provide non-potable water service only. It is possible that potable water may be supplied during major outages through a separate JEA General Construction Services contract, however, during a forced outage or a short notice outage, the Contractor shall be responsible for providing potable water for their employees.

3.9 The Contractor is advised that other projects may be in progress during this agreement period. Coordination and cooperation with other Contractors, JEA personnel and others working in the plant area will be required to insure the work will be completed on schedule.

3.10 Contractor shall be responsible for all labor and material costs associated with the replacement of any existing plant equipment, etc. components that may be damaged by the Contractor during the course of the Work.

3.11 JEA will supply 110V and 220V power, and may supply 80 psi plant service air for the Contractor's use, when and where available.

3.12 Contractor shall provide a Primary Contact to be assigned to the contract that will be accessible twenty-four (24) hours per day, seven (7) days per week, inclusive of Holidays. This person shall act as the primary interface between JEA and the Contractor. Should there be a change in

employment for the Primary Contact (i.e., promotion, resignation, termination, etc.) the Contractor shall notify the JEA Project Representative within twenty-four (24) hours of the event.

3.13 Contractor shall provide a Secondary Contact in the event the Primary Contact is not available for any reason.

3.14 The Contractor will be required to respond within two (2) hours during the term of the contract. Response is defined as having qualified technicians and supervision present on JEA sites and in communication with JEA personnel requiring scaffold services. Please note that the Contractor will be required to respond on weekends and holidays.

3.15 Contractor's employees shall have the Contractors' name and an employee number on their hard hat.

3.16 Contractor shall provide around the clock on-site / off-site communication capabilities.

3.17 Contractor shall be responsible and assume all liability for the cost of disposal of all waste products (such as general trash and sanitary waste) that are generated by the Contractor, unless prior arrangements are made with the JEA Project Representative.

3.18 Contractor shall adhere to the **JEA Tobacco-Free Workplace Policy**. Adherence to this policy is the responsibility of all JEA employees, Contractors and Visitors while on JEA property. The policy prohibits the use of any tobacco containing materials (i.e., chewing tobacco, cigarettes, e-cigarettes, cigars, pipes, etc.).

3.19 Good communications foster good relationships and benefit all parties. The Contractor may be required to attend and actively participate in pre-construction meetings as well as weekly or daily status meetings. The Contractor shall provide a knowledgeable person (Project Superintendent or General Foreman) for in-person or teleconference meetings. Labor or service charges related to meeting attendance will not be permitted.

4.0 CONTRACTOR SAFETY

4.1 **IT IS EXTREMELY IMPORTANT THAT THE CONTRACTOR AND JEA WORK TOGETHER TO ADDRESS ANY SAFETY CONCERNS SUCH THAT POTENTIAL ACCIDENTS ARE AVOIDED.**

4.2 All employees of the Contractor, who perform work on JEA property, shall be JEA Safety Qualified. Contractor Supervisors/Foremen will be required to attend the Safety Leadership Development program offered through the Northeast Florida Safety Council (NEFSC) or an equivalent program as required by the JEA Contractor Safety Program.

4.3 Site specific training shall be required to work at each electric plant location. The JEA Safety Department or JEA Project Representatives will provide a PowerPoint Training module for the site location. Contractor is responsible for ensuring ALL personnel have received the appropriate safety training, as required by JEA Contractor Safety Program, and shall submit a roster of the employees who received the training.

4.4 Contractor shall have at least one (1) competent supervisor, as defined by OSHA, on site at all times when and where work is being performed. The supervisor shall have at least two (2) years

of scaffold erection supervisory experience and the Contractor shall be able to validate personnel credentials upon JEA request.

4.5 Contractors are required to wear Personal Protective Equipment (**PPE**) at all times while on all JEA electric plant sites. **PPE** shall include, but not be limited to, the following; safety glasses, hard hats, hearing protection, safety-toed boots, disposable full body protective clothing including hoods and booties, and all types of work gloves. **The cost of all PPE shall be included in the pricing.**

4.6 Hearing protection shall be required while working in electric plant power block areas and when operating machinery or equipment (including saws).

4.7 Contractor employees are not permitted to wear ripped jeans, shorts, tennis shoes, sleeveless shirts, or shirts with offensive logos or messages.

4.8 Contractor shall provide warning signs and barricade tape at all approaches to scaffold erection and removal work areas.

4.9 Contractor shall maintain a safe work environment at all times. Contractor shall keep their work areas free of trip hazards daily and shall maintain excellent housekeeping through the completion date of the project.

4.10 JEA utilizes numerous chemicals, industrial gases, and fuel types in the electric production process. During the course of work, the Contractor may encounter or come in close proximity with these hazardous elements. The Contractor and JEA Project Representative shall work closely to identify these hazards prior to entering a work area through the use of Safety Task Assignment, Job Hazard Analysis, or similar template. Should the Contractor detect a gas leak or chemical spill in the work area, the JEA Project Representative shall be notified immediately and all Contractor employees relocated to a safe distance upwind of the leak or spill.

4.11 Contractor shall abide by the JEA Hot Work Permit Program, Lockout/Tagout Procedure and the Confined Space Entry Procedure.

4.12 Contractor shall abide by the JEA Contractor's Safe Work Practices Manual.

5.0 ENVIRONMENTAL

5.1 JEA is under strict environmental standards with respect to all construction activities, including purchasing, delivery, erection, and operation / maintenance of equipment.

5.2 Violations of standards may result in fines against and/or imprisonment of the guilty parties. The Contractor's work shall be in compliance with all applicable environmental standards. The Contractor is liable for breeches of permit conditions instigated by its personnel.

5.3 JEA shall assist the Contractor in environmental compliance by providing information upon request and monitoring the work. Environmental standards are contained in permits, permit application materials, Conditions of Certification, stipulations, and compliance documents. Copies of these documents are available for inspection at the JEA Environmental Compliance office. The Contractor shall cooperate fully with JEA in insuring compliance, including participating in meetings, implementing the JEA Project Representative's instructions, and performing other actions as requested.

6.0 SECURITY

6.1 Contractor shall supply a list of names of the personnel they will be using during a given project to the JEA Project Representative one (1) week prior to start of the project so they can secure their access into the plant. **Photo ID's are required for all personnel that will be working on JEA property.**

6.2 Only authorized Contractor personnel shall have drive-on plant access. Contractor shall be responsible for transporting their personnel from the JEA designated parking area to their work area.

6.3 A JEA issued security badge shall be visible at all times while on JEA property.

6.4 Background checks and mandatory training may be required for entry to NERC regulated spaces.

6.5 Parking on JEA property shall be approved through the JEA Project Representative. Parking for Company vehicles and Company personnel vehicles is limited to four (4) vehicles within the NGS facility. All Company vehicles driven onto plant sites must be properly identified with Company placards. Additional parking for personnel is available off-site in the designated Contractor parking area.

6.6 Certain work for JEA may entail entering maritime facilities, such as the fuel loading docks and/or the adjoining JAXPORT properties, all of which are governed by the Transportation Security Administration (TSA). In order to gain access these facilities, the Contractor must obtain, in advance and at their own cost, a Transportation Worker Identification Credential (TWIC). The estimated cost is $125.00 and is valid for five (5) years. Eligibility for a TWIC is subject to certain immigration and criminal background check requirements. Additional details may be found at www.TSA.gov.

7.0 GENERAL SCAFFOLD ERECTION REQUIREMENTS

7.1 Contractor must perform daily inspection, certification, and sign appropriate tags in accordance with OSHA standards for the duration of the scaffold rental period on days that the scaffold will be in use.

7.2 Contractor will have scaffold equipment available on site at all times to respond to small emergency jobs. The JEA shall not be charged for this equipment until it is placed in service.

7.3 The NGS site will assign a 40' X 40' area for the Contractor to use as an onsite lay down area. The Contractor shall be responsible for any fencing and/or security of materials and supplies.

7.4 Contractor will be allowed site access to deliver and stage equipment and supplies on JEA property in areas designated by the JEA Project Representative.

7.5 During emergency work the Contractor must be able to respond to an "As Needed" request for scaffolding erection or disassembly within two (2) hours. Response time after hours and weekends shall be four (4) hours. During SNOW (short notice outage work) and Major outages the contractor response time shall be two (2) hours on a 24 hours/7 day bases until the end of the outage.

7.6 Any scaffolding structures taller than 100 feet in height, or as requested by JEA, must be designed and drawings signed and sealed by a Florida registered professional engineer, prior to the installation for review by others, structures will be erected per these approved drawings with no modifications.

7.7 Contractor will not be allowed to use personnel elevators for the use of transporting materials and equipment, at any time, unless prior approval is obtained from the JEA Sr. Project Scheduler. Instead, the Contractor may use the Pegahoist (common freight elevator between NS1 & NS2 Boilers) and maintenance hoists for this purpose.

7.8 Specific Scaffolding supplied under Section 8.0 for the Boilers, Cyclones or SDA's shall be designed and constructed as a minimum, to OSHA CLASS, loading designation of **Medium Duty** (50 lbs/ft^2), unless otherwise specified.

7.9 All **"Non-Specific"** / General Maintenance (GM) scaffolding shall be built to the specifications of **OSHA CLASS Light Duty** (25 lbs/ft^2), unless otherwise specified at the time of request.

7.10 All Scaffolding provided in this contract shall be of the tube and coupler type.

7.11 All Specific Scaffolding supplied under Section 8.0 of this Technical Specification, shall include a minimum of two (2) high intensity lights for the duration of each outage. The lights are to be placed such that they provide lighting for the walkways and stairs.

7.12 Wall standoffs for support of scaffold will be allowed, however, the boiler/cyclone/SDA walls must be protected. Any damage to the vessels coating shall be repaired to the JEA's satisfaction at the Contractors expense.

7.13 A minimum clearance of 6" from the wall must be maintained with maximum clearance of 12''.

7.14 Generally, for all full boiler and partial boiler scaffolding, access to scaffold platforms shall be by two (2) sets of stairs rather than ladders, to the extent possible.

8.0 SPECIFIC SCAFFOLD SPECIFICATIONS

The following areas at Northside Generating Station (NGS) may require specific scaffold towers to be erected during the term of the Contract. All scaffolding shall be erected, certified, and disassembled according to OSHA and JEA Site Specific safety requirements. A Lump Sum price based on one (1) month of rental will be input in the Respondent Rates Workbook for the following power plant areas:

8.1 NGS UNITS 1 & 2 – BOILER PARTIAL SCAFFOLDING

NOTE: UNITS 1 & 2 PARTIAL SCAFFOLDING DESIGN CRITERIA SHALL BE OSHA CLASSIFIED AS LIGHT DUTY (25 lbs/ft^2).

Reference: Attachment C, Unit 1 & 2 Boiler Side Elevation, JEA Drawing No. 117757.

LOWER BOILER (COMBUSTOR) DETAILS:

Furnace Width: 83' 0" (inside to inside)

Furnace Depth @ Bed Floor: 15’ 5”
Furnace Depth @ Above Kick Out 21’ 10”
Furnace water wall kick out (refractory interface): El. 58’ 0”
Grid floor elevation: 36’ 0”
Note: There are two (2) division walls
Division wall to Side Wall: 27’ 3”
Division wall to Division Wall: 28’ 6”
Division wall width: 7’ 10 ½”
Division wall refractory interface El. 50’ 0”

NOTE: BOTH UNITS 1 & 2 HAVE HAD THE FRONT DIVISION WALL REMOVED FROM THE GRID FLOOR TO THE BOILER ROOF.

Scaffolding is required to access the refractory transition line on the Left-hand, Right-hand, Front wall, and Rear wall of combustor and the two (2) Division Walls, up to a point about 15 feet above the refractory/tube interface. The combustor wall interface line is 22’ above the bed floor, and the division wall interface is 16’ 6”. The working platform elevation should be approximately 2 feet below the transition line. In addition, Contractor shall provide 100% access to all tubes at the transition lines including the intersection of the division walls and rear walls.

Additional Requirements are as follows:

- Platforms shall be installed in the lower combustor to provide access to all of the refractory covered surfaces.
- The working platform shall be erected continuously around the perimeter of the combustor and be a minimum of six (6) feet and a maximum of seven (6’-6”) feet between working elevations.
- A minimum clearance of 6” to 8” from the wall must be maintained with maximum clearance of 12’’.
- Scaffold platform widths shall not be less than 24”.
- Maintain as much open access to the grid floor as possible.
- Scaffolding supports set on the grid floor must be placed on lumber or similar material to protect the grid nozzles.
- Scaffolding supports shall not be anchored to any of the refractory by the use of anchors or intrusive device. All bracing shall be placed against lumber to protect the refractory.
- Extreme care shall be taken not to damage the refractory coating in the hopper area.

8.2 NGS UNIT 1 & 2 – BOILER FULL SCAFFOLDING

NOTE: BOTH UNITS ONE & TWO HAVE HAD THE FRONT DIVISION WALL REMOVED FROM THE GRID FLOOR TO THE BOILER ROOF.

Reference: Attachment C, Unit 1 & 2 Boiler Side Elevation, JEA Drawing No. 117757.

Scaffolding requirements of the full Boiler Scaffolding shall be the same as Section 8.1, including the following requirements:

- All scaffold structures shall be in compliance with OSHA class **Medium Duty** Scaffolding.
- Each working platform shall be erected continuously around the perimeter of the combustor. This includes the Division walls and wing walls. Platforms shall be installed from the grid floor to approximately five (5) feet below the roof elevation of 151' (front wall) to 150' (rear wall). At the last platform elevation (~ 145'), a solid floor shall be installed the full width and depth of the boiler.
- There shall be a platform installed on the rear wall at elevation 116' in each combustion chamber. This platform will provide access to the boiler outlet floor and outlet refractory. A step shall be installed from elevation 116' to elevation 119' to access the cyclone inlet duct. Platforms shall be installed along the rear wall from elevation 116' to 150'.
- A minimum clearance of 6" to 8" from the wall must be maintained with maximum clearance of 12''.
- At a minimum, two (2) towers of access stairs, north and south, shall be provided for the full height of the boiler and to all three boiler cyclones. Travel to the other two cyclones shall be by a walkway with a minimum width of four (4) feet and equipped with handrails and kick plates.

8.3 NGS UNIT 3 – BOILER PARTIAL SCAFFOLDING

Reference: Attachment A, Unit 3 Boiler Side Elevation, JEA Drawing No. 013176.

- The intent of partial scaffolding for Northside Unit 3's furnace is to gain access to the burner fronts and the bottom of the superheaters.
- Access for scaffolding is through ash hopper doors located at the bottom of the boiler at elevation 10 feet.
- Unless specifically required, scaffolding of the entire furnace cavity is not required. However, the base structure shall be a minimum of 4 elevations of the full furnace cavity width and depth and be adequately braced to the main tower structure. A Screw Jack push/pull system shall be installed on all four sides to insure no shifting of the structure will occur.
- The solid deck area ("dance floor") shall be located on the top level of the scaffolding platform.
- All scaffold structures shall be in compliance with OSHA class **Medium Duty** Scaffolding.
- Travel up and down the scaffolding shall be stair & platform type with handrail and toe plates at each landing. The location of the stairs shall allow safe access to each of the burner levels, OFA level platforms and upper deck levels.
- An electric lifting hoist will be installed so that materials and equipment can be hoisted to all burner levels and the OFA port platform levels. The hoist must have a minimum capacity of 300 lbs.

8.4 NGS UNIT 1 & 2 CYCLONES

Reference: Attachments D, E, & F, Unit 1 & 2 Cyclone Side Elevation, JEA Drawing No. 117772, 117905, 117786.

- There are three cyclones on each CFB boiler, referred to as cyclones A, B, and C. There may be times when JEA will require scaffold erection for all three (3) cyclones at the same time or in any combination of the three. Therefore, Lump Sum Pricing for this section shall be based on a per cyclone basis. The Cyclones are separated into three distinct work areas, the cyclone vessel, cyclone outlet expansion joint & vortex finder and the cyclone outlet hood. These three areas require a different approach to the construction and configuration of the scaffolding so as to provide a safe and adequate work structure. A separate line item shall be submitted for each of these work areas. Each line item shall be a stand-alone price not requiring any other portion of this Section to be in place to affect each line item price.
- All scaffold structures shall be in compliance with OSHA class **Medium Duty** Scaffolding.
- JEA Drawing No. 117786 & 117905, highlights these areas and the dimensions of the cyclone, and ducts.

8.4.1 NGS 1 & 2 CYCLONE INTERIOR WALLS

Reference: Attachment D, Unit 1 & 2 Cyclone Side Elevation, JEA Drawing No. 117772.

- Access to the cyclone vessel is through the Intrex grid floor doors (2 per Intrex), Cyclone inlet cross-over duct door (one per Cyclone) and the Cyclone outlet Duct doors (2 doors, north & south side of Heat Recovery Area (HRA)).
- All surface areas of the cyclone vessel, cyclone outlet hood are refractory covered except the Vortex Finder.
- Scaffolding erected for the purpose of working on the cyclone vessel ONLY shall meet the following requirements:
  - Provide clear access and a platform to work the seal pot expansion joint at elevation 82’-11”. Scaffold shall be based out at elevation 65’.
  - Provide clear access to all interior walls, roof, outside diameter and inside diameter of Vortex finder. Work on the cyclone roof and vortex finder shall be from a solid cantilevered platform located approximately five (5) feet below the cyclone roof elevation ~ 154’-0” level and built down 20’.

8.4.2 NGS 1 & 2 CYCLONE OUTLET EXP. JOINT & VORTEX FINDER

Reference: Attachment D, Unit 1 & 2 Cyclone Side Elevation, JEA Drawing No. 117772.

JEA Drawing No. 117772.

- There shall be access to the cyclone outlet expansion joint at elevation 152’. A platform shall be installed with dimensions 40’ x 20’ high, extending from elevation 154’ level to 174’ level.

- A minimum clearance of 6” to 8” from the wall must be maintained with maximum clearance of 12’’.
- Scaffolding platforms shall be installed every 6’-6” and be a minimum of 2’ wide.

8.4.3 NGS 1 & 2 CYCLONE OUTLET HOOD TO HRA

Reference: Attachments E & F, Unit 1 & 2 Cyclone Side Elevation, JEA Drawing No. 117786, 117905.

- There are three cyclones on each CFB boiler. The outlets of these cyclones form a common refractory lined duct. This duct extends from the cyclone outlet to the HRA inlet expansion joint. JEA Drawing No. 117905, shows the side elevation and the plan of this duct. At some time it may be necessary for the JEA to scaffold this area for refractory repair/replacement. A solid cantilevered platform shall be constructed from approximately five (5) feet below the cyclone roof elevation ~ 154’-0” level and built down 20’. At that time all three (3) cyclones to HRA ducts will be scaffold at the same time. Therefore, Lump Sum Pricing for this section shall be on a per job basis.
- The Contractor shall provide a drawing of his plan to provide scaffolding for this area with the bid.
- Additional work requirements will be as follows:
  - Scaffolding shall be installed to allow access to ALL wall surfaces in the cyclone outlet duct. This includes the area adjacent to the cyclone outlet vortex finder and expansion joint at elevation 152’. The solid working platform should be 3-4 feet below the expansion joint.
  - Provide clear access to all interior walls. The cyclone outlet roof shall have a solid floor located approximately five (5) feet below the cyclone roof elevation of ~ 181’-0”.
  - Scaffolding shall maintain a minimum clearance of 8” to 12 “from the vertical walls.
  - Scaffolding platforms shall be installed every 6’-6” and be a minimum of 2’ wide.
  - Access to all platform elevations shall be by scaffolding stairs to the extent possible.

8.5 NGS 1 & 2 SPRAY DRYER ABSORBER

- Access to the Spray Dryer Absorber (SDA) is through access doors located at Grating elevations: ~ 42’-7” (Outlet Duct, one door), 79’-5” and 129’-2”, and the entrance door located in the lower sloped hopper at ~ elevation 28’.

- The Contractor shall be allowed to use the lifting hoist located at approximate elevation 150’ when it is available. The load capacity of the hoist is 1000 lbs.

8.5.1 NGS 1 & 2 SPRAY DRYER ABSORBER - PARTIAL SCAFFOLDING

Reference: Attachment B, Units 1 & 2 SDA Side Elevation, JEA Drawing No. 107780.

- At times, JEA will require that only the interior of the lower sloped section (elevation 29’-4” to 62’-0”) of the interior walls of the SDA tower be scaffolded. Scaffolding erected for the purpose of working in the lower portion of the SDA shall meet the following requirements:
  - Provide clear access to all interior sloped walls.
  - Scaffolding shall maintain a maximum clearance of 8” to 12 “from vertical and sloped vessel walls.
  - Scaffolding platforms shall be installed every 6’-6” and be a minimum of 2’ wide.
  - Access to working platforms may be by scaffolding ladders.
  - All scaffold structures shall be in compliance with OSHA class **Light Duty** Scaffolding.

8.5.2 NGS 1 & 2 SPRAY DRYER ABSORBER - FULL SCAFFOLDING

Reference: Attachment B, Unit 1 & 2 SDA Side Elevation, JEA Drawing No. 107780.

- The intent of this section is to provide scaffolding for the full height (elevation 29’-4” to 140’0”) of the interior of the SDA. Full interior scaffolding erected shall meet the following requirements:
  - Provide clear access to all interior vertical and sloped walls.
  - Scaffolding shall maintain a maximum clearance of 8” to 12” from vertical and sloped vessel walls.
  - Scaffolding platforms shall be installed every 6’-6” and be a minimum of 2’ wide.
  - Access to working platforms shall be by stair and landings.
  - Install a solid floor covering the entire area of the SDA at an elevation five (5) feet below the interior roof elevation. The purpose of this floor will be to access and to work on equipment hanging from the roof.
  - A platform shall be built level with the SDA door.
  - Stairs shall be built for access to platform.

- All scaffold structures shall be in compliance with OSHA class **Medium Duty** Scaffolding.

8.6 SPECIFIC SCAFFOLD TIME FRAMES

8.6.1 Specific Scaffold work shall be installed/dismantled within the time frames specified below starting from the Notice to Proceed (NTP). JEA will make every effort to provide the Contractor at least one (1) week (7 calendar days) notice of all Specific Scaffold work, whenever possible.

8.6.2 NGS Boilers

8.6.2.1 Unit 1 & 2 Boiler Partial Scaffolding

- Assembly – 36 hours from NTP
- Disassembly – 18 hours from NTP

8.6.2.2 Unit 1 & 2 Boiler Full Scaffolding

- Assembly – 60 hours from NTP
- Disassembly – 24 hours from NTP

8.6.2.3 Unit 3 Boiler Partial Scaffolding

- Assembly – 36 hours from NTP
- Disassembly – 18 hours from NTP

8.6.3 NGS Cyclones

8.6.3.1 Unit 1 & 2 Cyclone Interior Walls

- Assembly – 36 hours from NTP
- Disassembly – 18 hours from NTP

8.6.3.2 Unit 1 & 2 Outlet Expansion Joint & Vortex Finder

- Assembly – 24 hours from NTP
- Disassembly – 12 hours from NTP

8.6.3.3 Unit 1 & 2 Cyclone Outlet Hood to HRA

- Assembly – 12 hours from NTP
- Disassembly – 6 hours from NTP

8.6.4 NGS Spray Dryer Absorber (SDA)

8.6.4.1 Unit 1 & 2 SDA Partial Scaffolding

- Assembly – 18 hours from NTP
- Disassembly – 6 hours from NTP

8.6.4.2 Unit 1 & 2 SDA Full Scaffolding

- Assembly – 48 hours from NTP
- Disassembly – 18 hours from NTP

9.0 NON-SPECIFIC SCAFFOLD SPECIFICATIONS

The following outlines the Non-Specific scaffold requirements, including all scaffolding not covered in Section 8.0 above. The subsections below describe the required service process, estimating/pricing requirements, and bid pricing. All scaffolding shall be erected, certified, and disassembled according

to OSHA and JEA site specific safety requirements. All work in this section will be performed on an "as needed" basis. The Contractor will be required to supply a Lump Sum price for each job requested over the contract period based on the labor rates provide in the Respondent Rates Workbook.

9.1 Pricing

9.1.1 The Contractor will provide the following pricing information on the attached Respondent Rates Workbook:

9.1.1.1 Unit Price Labor Rate (Straight Time) – Respondent Rates Workbook, Line 9

9.1.1.1.1 This is the price in U.S. dollars for every straight time hour of production. This all-inclusive rate should include supervision, labor, common equipment (forklifts, trucks, hoists, etc. including fuel & maintenance), materials, consumables, tools, PPE, training, safety, testing, overhead, profit, and any other charges required to support one hour of scaffold construction.

9.1.1.2 Unit Price Labor Rate (Overtime) – Respondent Rates Workbook, Line 10

9.1.1.2.1 This is the price in U.S. dollars for every overtime hour of production. This all-inclusive rate should include supervision, labor, common equipment (forklifts, trucks, hoists, etc. including fuel & maintenance), materials, consumables, tools, PPE, training, safety, testing, overhead, profit, and any other charges required to support one hour of scaffold construction.

9.1.1.2.2 Overtime rates will only be paid when previously approved by the JEA Project Representative (Job Requestor).

9.1.1.3 Rental Rate – Respondent Rates Workbook, Line 11

9.1.1.3.1 This is the rental price for each scaffold job on a monthly basis. This will be priced per piece for a one month period.

9.1.1.4 Per Diem Rate – Respondent Rates Workbook, Line 12

9.1.1.4.1 All Travel reimbursement shall be in accordance with the JEA Contractor Travel Procedure. Per the procedure, per diem and lodging is capped at $150/day.

9.1.1.4.2 In no instance will per diem or travel be paid to anyone whose primary residency is within 75 miles of the JEA plant site where the work is being performed. Mileage greater than 75 miles one way, or 150 miles round trip, will be reimbursed in accordance with JEA's Contractor Travel Procedure. Google Maps will be utilized for determining travel distances to each electric plant location.

9.1.1.4.3 Contractor employees who qualify for per diem and travel shall be required to provide proof of residency by submitting a copy of their Driver License.

9.1.1.4.4 Per Diem will be reimbursed at the rate stated in the Respondent Rates Workbook and shall remain fixed for the contract duration.

9.2 Scaffold Construction Process

The following process will be used for each Non-Specific scaffold job. The Contractor will be required to follow this process for every Non-Specific scaffold job to ensure payment. This process is in place to accurately track all costs associated with various projects requiring scaffold services.

9.2.1 Scaffold Request Process

9.2.1.1 All scaffold jobs will be requested by a JEA Project Representative (Job Requestor) using the Scaffold Request Form (see example in Attachment G) and emailed to the Contractor's onsite representative. This form will contain the work location, approximate size, access requirements, and anticipated job duration.

9.2.1.2 The Contractor will schedule a meeting with the Job Requestor to examine the exact location where the scaffold is to be built and communicate any details about the job.

9.2.1.3 The Contractor will provide a Lump Sum price based on the labor and rental rates bid and return to the Job Requestor & Sr. Project Scheduler for approval.

9.2.1.4 Upon approval, erection will be allowed to commence. The Contractor will promptly notify the Job Requestor of any problems and give notice of erection completion and safety certification. The scaffold tower will then be turned over to JEA for use.

9.2.1.5 No scaffold shall commence prior to the Contractor's submission of the fixed bid pricing on the Scaffold Request form and approval by either the Job Requestor or Sr. Project Scheduler. The only exception to this provision is noted in Section 9.4.

9.2.1.6 Any scaffold modifications and revised pricing must be approved by the Job Requestor and will be documented with an updated Scaffold Request Form as needed for the duration of the job. The updated Scaffold Request Form, with pricing revision, must be submitted to the Requestor and Sr. Project Scheduler.

9.2.1.7 Upon work completion, the Job Requestor or Sr. Project Scheduler will give notice to the Contractor to disassemble and remove the scaffold. At this time all monthly rent charges will be stopped. The actual duration will be the number of months listed on the scaffold request form – or – the number of months plus actual extra days the scaffold was in use, whichever is greatest. Extra days will be added to the total price valued at $1/30^{th}$ of the monthly rental price for the particular job.

9.3 Invoicing and Billing

9.3.1 All invoicing shall be completed on a monthly basis for completed jobs.

9.3.2 The Contractor shall provide a weekly update on the status of all scaffold jobs. The weekly report will include a projected cost exposure to JEA, list of jobs to be completed

within one month, and list of completed jobs that will be invoiced within one month. A draft of an acceptable report format can be found in Attachment H.

9.3.3 The Sr. Project Scheduler will be the primary point of contact for the Contractor for work performed at NGS. Typically, each scaffold job will be reported to the Sr. Project Scheduler as well as the Job Requestor during the approval and invoicing phases of the job. At JEA's other electric plant sites, the Job Requestor will typically be the Contractor's point of contact.

9.3.4 Each invoice will have subtotal pricing by job including the job identification number.

9.4 Emergency Provisions

In the case of an emergency circumstance where scaffold services are needed immediately and there is not adequate time to follow the process outlined in Section 9.2, the Contractor will be allowed to erect or disassemble scaffold under the guidance and request of a JEA Project Representative without a scaffold request form. The scaffold request form will be required to be completed and approved on the next business day or when the emergency situation has been resolved. Emergency circumstances include (but are not limited to): forced outages, forced de-rates, emergency safety or medical situation, emergency environmental event, catastrophic equipment failure, fires, etc.

10.0 CODES AND REGULATIONS

10.1 Contractor will perform all work in accordance with established federal standards and regulations, local codes and regulations, and the current issues of the following codes and regulations.

10.1.1 American National Standards Institute (ANSI)

10.1.2 American Society of Mechanical Engineers (ASME)

10.1.3 Institute of Electrical & Electronic Engineers (IEEE)

10.1.4 American Society of Testing Materials (ASTM)

10.1.5 Instrument Society of America (ISA)

10.1.6 American Welding Society (AWS)

10.1.7 National Fire Protection Association (NFPA)

10.1.8 National Electric Manufacturers Assoc. (NEMA)

10.1.9 National Electric Code - 11071 (NEC of NFPA)

10.1.10 Occupational Safety and Health Administration (OSHA)

10.1.11 Environmental Protection Agency (EPA)

10.1.12 Florida Department of Transportation (FDOT)

10.1.13 National Institute for Occupational Safety and Health (NIOSH)

In case of a conflict between the above codes and regulations, Contractor will perform all work in accordance with the more stringent code or regulation.

11.0 ATTACHMENTS

11.1 Attachment A – JEA Drawing 013176 – NGS 3 Boiler
11.2 Attachment B – JEA Drawing 107780 – NGS 1 & 2 SDA's
11.3 Attachment C – JEA Drawing 117757 – NGS 1 & 2 Combustor's
11.4 Attachment D – JEA Drawing 117772 – NGS 1 & 2 Cyclones
11.5 Attachment E – JEA Drawing 117786 – NGS 1 & 2 Cyclones
11.6 Attachment F – JEA Drawing 117905 – NGS 1 & 2 Cyclones
11.7 Attachment G – Scaffold Request Form (sample)

APPENDIX B – FORMS

076-18 Scaffolding Services for JEA

MINIMUM QUALIFICATION INFORMATION

The minimum qualifications shall be submitted in the format attached. The report shall be presented in the order described below. In order to be considered a qualified supplier by JEA you must meet all the criteria listed and be able to provide all the services listed in this specification.

The supplier must complete **one (1) original and three (3) duplicate (copy)** of the following information and any other information or attachments.

RESPONDENT INFORMATION

COMPANY NAME:_____

BUSINESS ADDRESS:_____

CITY, STATE, ZIP CODE:_____

TELEPHONE:_____

FAX:_____

E-MAIL:_____

- The Company submitting the Response shall have successfully self-performed or currently performing three (3) similar service contracts in the United States, in the past five (5) years, date ending the Response Due Date.
    - A similar service contract is defined as scaffolding erection services totaling $1,000,000.00 or more for any one (1) year period for each contract.

Reference ____ of _____

Primary Nature of Service Provided_____

Geographic Location_____

Customer_____

Reference Name_____

Reference Phone Number_____

Reference Email:_____

Service Work greater than $1,000,000.00 in a service year. ☐ Yes ☐ No

Completed in the last five years of the Bid Due Date. ☐ Yes ☐ No

Work Performed Prime Contract? ☐ Yes ☐ No

Description of Project

_____

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_____

APPENDIX B
RESPONSE FORM

076-18 Scaffolding Services for JEA

COMPANY INFORMATION:

COMPANY NAME:_____

BUSINESS ADDRESS:_____

CITY, STATE, ZIP CODE:_____

TELEPHONE:_____

FAX:_____

EMAIL OF CONTACT:_____

Total Bid Price from the Bid Workbook	**$**

☐ **I have read and understood the Sunshine Law/Public Records clauses contained within this solicitation. I understand that in the absence of a redacted copy my proposal will be disclosed to the public "as-is".**

Company's Certification

By submitting this Response, the Respondent certifies that it has read and reviewed all of the documents pertaining to this ITN and agrees to abide by the terms and conditions set forth therein, that the person signing below is an authorized representative of the 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 license for the work. The company certifies that its recent, current, and projected workload will not interfere with the company's ability to Work in a professional, diligent and timely manner.

The Respondent certifies, under penalty of perjury, that it holds all licenses, permits, certifications, insurances, bonds, and other credentials required by law, contract or practice to perform the Work. The Respondent also certifies that, upon the prospect of any change in the status of applicable licenses, permits, certifications, insurances, bonds or other credentials, the Company shall immediately notify JEA of status change.

We have received addenda _____through_____

_____ _____

Signature of Authorize Officer of Company or Agent Date

_____ _____

Printed Name & Title Phone Number