



BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION

March 19, 2021

PROJECT: INVITATION FOR BID NO. 21-018 Automatic Transfer Switches for Portable Generators for the BGJWSC

ADDENDUM: One (1)

DUE DATE: Tuesday, April 13, 2021 12:00PM, NOON

THIS ADDENDUM IS FOR THE PURPOSE OF ANSWERING THE FOLLOWING QUESTIONS:

- 1) **QUESTION:** Is there a process to have additional manufacturers approved for this project, specifically States Electric and ESL Emergency Power Systems?

ANSWER: Any potential manufacturers will be acceptable so long as they comply with the following specifications and approval process:

- The contractor should provide a prior approval submittal packages provided in accordance with Specification Section 16000, Paragraph 2.1.A.
- These prior approvals should be in the form of a shop drawing/submittal package as required in Specification Section 16000, Paragraph 1.10, Specification Section 16210, Paragraph 1.4, and Specification Section 16215, Paragraph 1.4 and 2.1.
- Once the prior approval/substitution packages are reviewed, the determined result will be published via addendum.
- The contractor should not assume that because a package has been submitted that it will be approved.

- 2) **QUESTION:** Which Level of Controller would be required with the ATS project scope and implementation (Level 2, 3, or 4)? Are there any other requirements to be

in consideration for the overall installation and options for the controller/ATS?

ANSWER: Level 4 controller is required for additional options and predictive maintenance. The ability to connect to Modbus TCP for use with our SCADA panels, phase barriers for each phase unit on top and bottom, delayed transition unit looks to meet our requirements for the majority of installations, sufficient dry contacts to control the start/stop of the generator from the ATS is one is required on-site are all requirements for installation. Additionally, the following Min. Requirements for I/O:

- **INPUT:**
 - Remote control to S1
 - Remote control to S2
 - Manual-Auto Mode
 - Reset Alarm
- **OUTPUT:**
 - Alarm/Product Availability
 - Source 1 available
 - Source 2 available
 - Load connected to S1
 - Load connected to S2
- **Generator Start/Stop**
- **Aux 24Volt Power Supply Module**

- 3) QUESTION:** The drawings show the disconnect, ATS, and docking station as 3 separate components; the specs call for ATS to be integral to the docking station. Are both solutions acceptable?

ANSWER: For clarification, the specifications and notes on the drawings give the contractor the option of combining the docking station and ATS into a single unit, but that is not a requirement of the design documents. Some locations could make use of the combined unit due to available space, but the determination will need to be addressed on a site by site basis.

- 4) QUESTION:** The docking station has elevation installation statement located in the Generator Docking 16215 Technical Specs Part 3.2-2, but nothing within the ATA specs. Please clarify if elevation will be a primary principle of the project.

ANSWER: This project is partially funded by FEMA and requires that the 100 year flood plain elevation be considered for the installation of each ATS switch. Final grade elevation above MSL will need to be acquired prior to installation for each site. Installation will need to be at or above MSL for each location, based on the FEMA requirements.

5) QUESTION: Where will the final location of the Controller of the ATS be located?

ANSWER: The ATS Controller needs to be located on the ATS with communications to the SCADA panel. The Controllers should be located on the front of the ATS switch, with communication to the SCADA panels. All ATS units will use discrete I/O and have the availability of Modbus TCP at all sites. Please provide solar shields over the ATS controller display when the controller is not located on a dead front panel.

6) QUESTION: Phase sequence and phase relay is built into true one Level 4 Controller. Should the contractor still provide a separate phase sequence relay in the docking station?

ANSWER: The Phase Sequence relay is part of the Trystar UL listed assembly and it must remain. Unless an approved equipment manufacturer has been approved by addendum, with the correct UL listings.

7) QUESTION: It is proving difficult to find an 800A fused disconnect that is rated Nema 4X. Would Nema 3R stainless be an acceptable substitution?

ANSWER: Nema 3R stainless steel will be acceptable if Nema 4X cannot be procured. All others are to be 4X rated and the contractor should provide proper documentation for this deficiency.

8) QUESTION: For the stations marked “NO” under the REPLACEMENT REQUIRED column, these do NOT require a new disconnect, ATS, and docking station?

ANSWER: The column listing that states “NO” is under the ROW category for Replacement Required of the Service Disconnect. The stations listed at 4035 and 4036 are currently under contract for upgrades outside the scope of this ATS project. The statement regarding the disconnect will be dependent on actual start and installation from station upgrade projects. The current in-use disconnect does not meet the requirements of this solicitation.

**** PLEASE NOTE THE FOLLOWING CLARIFICATION REGARDING SCOPE OF WORK SECTION 2.0 IN THE IFB DOCUMENTS:**

2.0 SCOPE OF WORK

The Scope of Work for the project consists of the contractor furnishing switches and installing all labor, materials, tools, equipment, freight, disposal and incidentals for the purchase and installation of transfer switches to support portable generator deployment. ATS units will be installed at existing lift stations for the purpose of supporting portable generators that may be deployed. Quick connection points are included to easily tie in the cables from the temporary genset. The desired outcome is an automatic transfer switch that can operate on its own without someone needing to be at the jobsite. This setup will enable someone to deliver, connect and then leave the jobsite with it being **fully on** back up by power generation. The ATS must transfer electric power back to utility automatically when utility power is restored and shut the generator down. **The ATS units shall also integrate into the new RTU design and implementation being phased currently.** The work should be in accordance with JWSC standards and specifications should include:

- Supply and install one (1) automatic transfer switch w/built in Quick Connect (200 amp, 3 poles, 3 Phase, 60HZ. Switch should include in-phase monitor and engine exerciser where applicable.) Nema **4X(outdoor) Stainless Steel** enclosure.
- Installations will include conduit and suitable copper wiring between utility disconnect, genset to ATS and customer control panel as below:
 - Install 3r wire gutter as needed to accommodate new ATS
 - Butt splice conductors exceeding **more than 20'**
 - New conductors for anything less than 20'
 - Reroute conduits **to complete relocation of proposed location of ATS.**
- Install new ATS and test for functionality.
- Racks where required. Concrete pads are not to be poured as part of this project unless no additional work will be needed on site.
- All required permits.
- Configuration of generator controller and ATS for automatic switch operation.
- Each ATS must be installed in compliance with current local and national electric codes.
- Contractor shall supply and install Automatic Transfer Switches (ATS_ at each location. ATS's shall be of industrial grade, housed in NEMA 4x stainless steel enclosures, and suitable for use in a sewer lift station environment.
- ATS shall be capable of automatic and manual operation.

- Acceptable Manufacturers: Products of the following manufacturers, which comply with these specifications, are acceptable:
 1. Transfer Switches:
 - a. GE/ABB True One
 - b. Other manufacturer by prior approval
- The ATS Shall be equipped with lockable access doors.
- ATS proposal submitted for consideration must be UL Listed, NEC compliant, and properly sized for each listed location.
- The operator interface must afford comprehensive monitoring of the switch and power from the generator and display any detected malfunctions. Highest level of input and output and functionality from the HMI, with ability to maintain 24volt source to power unit if power loss is active.
- Field Testing and Training by Contractor shall consider and include the following:
 - Startup and functional testing will include automatic transfer of power from utility to generator. The ATS will operate without malfunction under load at each installation site. Automatic transfer of electrical power from genset back to utility power will conclude test. The contractor will also demonstrate manual operation of the switch.
 - Operation and Maintenance Manuals - provide (1) set per generator ATS system and any included accessories.
 - Provide customer with ATS user programming/setup operations and any required routine maintenance training.
 - Integration into existing or ability to easily integrate into the RTU system that the BGJWSC utilizes.

Additional information:

- The JWSC reserves the right to reject proposals not meeting the minimum technical specifications and/or functional requirements outlined in this document.
- Delivery and installation of ATS shall not exceed 150 calendar days from award of contract.
- Contractor quoted prices will be all inclusive, including purchase, mobilization, delivery, prep, installation of ATS's, onsite-pre-use and operator training.



All applicants under this Invitation for Bid are kindly requested to acknowledge receipt of this Addendum in original only.

**ACKNOWLEDGEMENT
ADDENDUM: ONE (1)**

DATE: _____

The above Addendum is hereby acknowledged:

(NAME OF BIDDER)

Signature

Title