



Procurement Department Bid Section
Customer Center 1st Floor, Room 002
21 W. Church Street
Jacksonville, Florida 32202

July 20, 2021

ADDENDUM NUMBER: Ten (10)

TITLE: IFB 1410326449 Cedar Bay Water Reclamation Facility Backup Power System

BID DUE DATE: July 27, 2021

TIME OF RECEIPT: 12:00 PM EST

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

1. **Question:** Supplier cannot provide their equipment directly interfaced to a Siemens PLC without voiding warranty. Their system utilizes a Schneider Electric Modicon PLC to keep everything as a single manufactured system.

Answer: The use of a Modicon PLC for internal control of the system, in addition to the hardwired load-shedding signals shown and described in the Contract Documents, is acceptable. Data and status signals will be relayed from the packaged Modicon PLC to a new Siemens PLC (CPU module with communications ports) via Modbus TCP Ethernet protocol. This new Siemens PLC will be interfaced to the plant HMI for remote monitoring from the control room. The new Siemens PLC CPU will be provided by and programmed by the PICS subcontractor. Network data from the Modicon PLC to the Siemens PLC will be coordinated between both suppliers prior to construction to ensure successful communications and transmission of data. The Ethernet cable between the package panel and the new PLC will be provided by the Electrical subcontractor.

2. **Question:** Supplier cannot provide an HMI operator interface terminal (package panel HMI) in an outdoor enclosure.

Answer: The operator interface terminal (package panel HMI) will be relocated to inside the building.

3. **Question:** Supplier requires the breakers to be 4 pole, not 3.

Answer: Change the breakers to 4 pole.

4. **Question:** Supplier can provide the outdoor enclosure ingress rating to meet NEMA 3R specs, but not NEMA 4X.

Answer: Change the enclosure ingress rating to allow NEMA 3R SS.

5. **Question:** Supplier requires the generator control board to be included in the electrical package, not the separate controls package.

Answer: The generator control package may be moved into the package provided by the electrical equipment manufacturer.

6. **Question:** Supplier requests that Bassler be specified for single phasing detection, not Schwietzer.

Answer: Change to Bassler for single phasing detection and PAC4200 for power monitoring.

7. The following are Appendix A Clarifications Items which apply to the PLC requirements:

- 1) The Modicon PLC is only a data source. The Siemens PLC will read the data into its internal registers. Modicon PLC shall not write (push) the data into the Siemens PLC.
- 2) The Modicon PLC will have a numerical “heartbeat” word that we can use to check for communications activity.
- 3) Furnish to JEA a copy of the data table that is in the Modicon for reference purposes.
- 4) The Modicon and Siemens PLC will be programmed and delivered to JEA fully functional and ready for JEA to connect iFix tags to the Siemens data table. This includes obtaining and configuring the IP addresses to make these PLCs connect successfully to the plant network.
- 5) Furnish to JEA a copy of the data table that is in the Siemens PLC for reference purposes with tag names that match those on the Modicon table.
- 6) Furnish to JEA fully documented copies of the programs for both PLCs.
- 7) License software copy of SE PLC EcoStruxure Control Expert (CEXSPUCZXGPMZZ) for maintenance of the Modicon PLC. Depending of the Modicon PLC, the PLC must have a Non Volatile memory installed to store the whole operation of the gear.
- 8) The HMI provided by SE to do the control of the ATC interface shall be Megalis Harmony GTUX and software Vijeo Designer (VJDGNDTGSV62M). This is the Local HMI rated for the Wastewater application like Siemen’s Siplus.
- 9) Critical Item spare Drawdown Breaker for the Outside compartment.

ACKNOWLEDGE RECEIPT OF THIS ADDENDUM ON THE BID FORM