RIVERSIDE COUNTY INFORMATION TECHNOLOGY

Document A – Scope of Work

Uninterruptable Power System (UPS) for Southwest Justice Center

30755-D Auld Road, Murrieta, CA 92563



1. Scope of Work:

1.1. Phase 1: Installation of New 20KW UPS & Downstream Output Distribution

- 1.1.1. Furnish, Receive, & Rig in Place New UPS#B, Battery Cabinet, External Maintenance Bypass, & Output Distribution Panel
- 1.1.2. Furnish & Install 1 Ea. New 208/120V 175A New UPS#B Input Breaker within Input Switchboard LEDS
- 1.1.3. Furnish & Install 208/120V 4W+G 175A Input Cables & Conduits from Input Switchboard LEDS to New UPS#B External Maintenance Bypass
- 1.1.4. Furnish & Install 208/120V 4W+G Input Cables & Conduits between New UPS#B & New UPS#B External Maintenance Bypass
- 1.1.5. Furnish & Install 208/120V 4W+G Output Cables & Conduits between New UPS#B & New UPS#B External Maintenance Bypass
- 1.1.6. Furnish & Install Control Cables & Conduits between New UPS#B & New UPS#B External Maintenance Bypass
- 1.1.7. Furnish & Install DC Cables & Conduits between New UPS#B & New UPS#B Battery Cabinet
- 1.1.8. Furnish & Install 208/120V 4W+G 175A Output Cables & Conduits between New UPS#B External Maintenance Bypass & New Output Distribution Panel#B
- 1.1.9. Startup New UPS#B & Test Operations
- 1.1.10. Furnish & Install the following Receptacles to be fed from UPS#B Output Distribution Panel:

1.1.10.1. 15 Ea. L6-30R Receptacles

1.1.10.2. 8 Ea. 5-20R Quads

1.2. Phase 2: Split Loads between New UPS#B & Existing UPS#A

- 1.2.1. Move Dual Corded Loads Side B Strip PDU's to New UPS#B Powered Receptacles
- 1.2.2. Verify all Dual Corded Loads are fed from UPS#A & UPS#B
- 1.2.3. Furnish & Install 4 Ea. 208V 30A Single Phase Rackmount ATS's (Location to be designated by Client)
- 1.2.4. Feed Side#B of the ATS's from New UPS#B Powered Receptacles
- 1.2.5. During a Scheduled Shutdown:

- 1.2.5.1. Verify Loads have been de-energized by client
- 1.2.5.2. Move Single Corded Loads to the New 30A ATS's
- 1.2.5.3. Feed Side#A of the ATS's from Existing UPS#A Powered Receptacles
- 1.2.5.4. Verify Single Corded Loads are now fed from both UPS#A & UPS#B via the New ATS's

1.3. Phase 3: Upgrade Existing UPS#A Output Distribution Load Centers

- 1.3.1. Verify all Loads are fed from both UPS#A & New UPS#B
- 1.3.2. De-Energize UPS#A, External Maintenance Bypass, & Output Load Centers
- 1.3.3. Disconnect, Pull out, & Label all Existing UPS#A Powered Receptacles Wires from the Load Centers
- 1.3.4. Disconnect & Remove Existing UPS#A Output Distribution Load Centers
- 1.3.5. Furnish & Install 1 Ea. New 42-54Pole 100A Output Panel#A
- 1.3.6. Reconnect and/or Extend Existing UPS#A Powered Receptacles Wires on New Output Panel#A
- 1.3.7. Furnish & Install 4 Ea. New L6-30R Receptacles & Feeders from New Panel#A
- 1.3.8. Energize UPS#A & Transfer the Load Online
- 1.3.9. Verify all Loads are now Dual Fed from both UPS#A & UPS#B

1.4. <u>Contingency:</u>

1.4.1. Include a project contingency equivalent to 10% of your total estimated labor and material cost.

1.5. <u>Required Experience and Certifications:</u>

- 1.5.1. The selected contractor shall be certified by the following manufactures and currently maintain the noted program level. A copy of such documents must be submitted with the estimate for the quote to be valid.
 - 1.5.1.1. <u>C-10 *Specialty UPS</u>
 - 1.5.1.2. Experience with equipment type:
 - 1.5.1.2.1. APC Symmetra UPS System 16kVa 60kVa

- 1.5.1.2.2. Eaton Powerware UPS System 16KVa 160kVa
- 1.5.1.2.3. Liebert UPS System 16kVa 250kVa
- 1.5.1.3. <u>APC Symmetra UPS manufacture certification and/or capable to subcontract</u> <u>warranty work</u>
- 1.5.1.4. Eaton Powerware manufacture certification and/or capable to subcontract warranty work
- 1.5.1.5. <u>Provide additional certifications contractor holds</u>

1.6. <u>Warranties:</u>

- 1.6.1. Unless otherwise specified, unconditionally guarantee in writing, the materials, equipment, and workmanship for a period of not less than one (1) year from the date of Project Closeout letter issued by RCIT project manager. Acceptance shall be deemed as beneficial use by RCIT.
- 1.6.2. Transfer manufacture's warranties to RCIT in addition to contractor's one (1) year warranty. Detail specific parts within the equipment that are subject to separate conditional warranty. Warranty proprietary equipment and systems involved in this contract during the warranty period. Final payment shall not relieve Contractor of these obligations.
- 1.6.3. Repair problems associated with the installation reported by RCIT shall be corrected in accordance with the following schedule:
- 1.6.4. Any installation within an eighty (80) mile radius of RCIT Administrative Center located at 4080 Lemon Street, Riverside, CA, shall be corrected within one (1) working day from notification.
- 1.6.5. Installations outside an eighty (80) mile radius of same County Administrative Center shall be corrected within two (2) working days from notification.
- 1.6.6. If Contractor responds to a problem and determines that the problem was not caused due to the installation, Contractor has the right to bill.
- 1.6.7. Contractor shall pass along to RCIT any additional warranties offered by the manufactures, at no additional costs to RCIT, should said warranties extend beyond the period specified herein.

1.7. Inspection, Acceptance, and Title:

- 1.7.1. Inspection and Acceptance shall be at destination and upon successful installation unless otherwise provided. Title to/or risk of loss or damage to all items shall be the responsibility of the successful Contractor until acceptance by RCIT, unless loss or damage results from negligence by RCIT.
- 1.7.2. Contractor shall notify RCIT in writing when the work is ready for inspection. RCIT shall inspect the work within twenty-four (24) hours after receipt of notification from Contractor.

1.7.3. Acceptance shall be subject to completion of all work, successful post-installation testing, which yields all systems function accordingly and receipt of full documentation.

1.8. Data Sheets:

1.8.1.1. Contractor shall provide data sheets for all equipment as part of their estimate.

1.9. Materials:

- 1.9.1. APC Galaxy VS UPS, 208/120V In/Out, 20KW Scalable to 40KW
- 1.9.2. APC Galaxy VS External Battery Cabinet 60 Min Runtime @ Full Load
- 1.9.3. Line & Match External Maintenance Bypass Cabinet Rated up to 75KW
- 1.9.4. UPS#B Output Distribution Panelboard 208/120V 225A Rated 175A Main Breaker (Rated for up to 40KW Load) 54 Pole
- 1.9.5. UPS#A Output Distribution Panelboard, 240/120V 100A Rated, 100A Main Breaker, 42-54 Pole
- 1.9.6. 208V 30A Single Phase Rackmount ATS
- 1.9.7. Lot of Electrical Supplies