



*DPS ~ Infrastructure Monitoring Systems, Inc.*

**DATA POWER SOURCE**

ELECTRICAL SOLUTIONS FOR BUSINESS CONTINUITY

11187 BOB WILLIAMS PARKWAY COVINGTON, GEORGIA 30014

PHONE: (770) 498-9622 FAX: (770) 498-9654



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ENGINEERING  
& DESIGN

7/25/2016

Ed Greenway  
Rockdale County MIS  
Systems Analyst

RE: Data Center UPS Replacement

Ed,

As directed we have established pricing to provide for the replacement of the existing UPS systems in the Rockdale County MIS data center environment. Our scope of work is based upon our recent site survey. We believe the best course of action to provide a reliable source of uninterruptible power would be to provide a new APC SmartsUPS VT unit in place of the existing UPS units. The new system would be a 20kVA / 16kW 3 phase UPS unit and would be initially loads to approximately 30%. This would provide ample capacity for future expansion of IT loads. The output of the UPS unit would be routed to a new 3 phase 100A panel board that would take the place of the existing single phase load center on the wall behind the existing IT racks. Once the new UPS unit is commissioned we would assist in transitioning electrical loads over to the new UPS unit. Once all server loads have been transitioned over we would remove the existing APC MATRIX system as well as the existing rack mount UPS units and turn them over to the county.

The investment required to provide for the above referenced APC SmartUPS 20kVA UPS Unit and the associated installation services will be Twenty-Two Thousand Three Hundred and Fifty-Five dollars..... \$22,350.00

To provide SEMI annual preventive maintenance on the UPS unit would require an additional investment of One Thousand Five Hundred dollars..... \$1,500.00  
(Please review our UPS Preventive Maintenance Scope of Services)

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We truly appreciate the opportunity; should you have any questions please do not hesitate to let us know.

Best Regards,

Tim Kent



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## Scope of Work

### UPS Service

#### **Quarterly & Semi-Annual Service**

- Check for proper clearance around unit.
- Perform a complete visual inspection of Internal sub-assemblies, wiring harnesses, current carrying connections and interconnections, contactors, cables and major components.
- An Infra-red scan will be conducted periodically. This may involve the use of thermal-graphic image scanning to pinpoint and identify contact and connection *hot spots* within the UPS system electronic and electrical components.
- All *on-line* meter readings and any existing alarms with the UPS system *on-line* will be recorded and noted, necessary adjustments made where possible.
- With customer approval, transfer the UPS to Static Bypass mode, the UPS system may be placed into Maintenance Bypass if available to allow physical inspection of the:
  - Rectifier/Charger assembly and controls,
  - Inverter assembly,
  - Control assembly,
  - Static Switch assembly,
  - Any interrelated sub-assemblies.
- Fans and fan bearings for proper operation.
- Air filters cleaned during each visit and replaced when they have become noticeably clogged, as applicable.
- All of the following will be verified, visually and physically:
  - Electronic calibrations and factory related settings where applicable,
  - Meters and associated calibrations where applicable,
  - Any electrical system parameters; including utility input, bypass input, and UPS output.
- The UPS system cabinets will be thoroughly cleaned.
- Verify remote status panel operation.
- Implement manufacturer field change notices, as possible.
- Perform functional test upon customer approval.
- Review system performance with customer to address any questions and to schedule any repairs.

#### **Annual Service**

- Check the inverter and rectifier snubbers for discoloration or damaged wiring.
- Check all contacts to ensure secure connections.
- Verify all connections show no signs of discoloration.
- Check fuses on the DC capacitor deck as applicable.
- Clean interior and exterior of unit.
- With customer approval, perform operational test of the system including unit transfer and battery discharge.
- Measure and calibrate, as necessary, where possible, all electronics to system specifications.
- Measure and record all low-voltage power supply levels.