1. **SCOPE OF WORK**
   1. Contractor to replace the generator and automatic transfer switch (ATS) at five sites.
2. **CONTRACTOR RESPONSIBILITIES**
   1. Site Preparation
      1. Coordinate and obtain any permits required and coordinate any inspections with local authorities that may be needed for component replacement work.
      2. Provide engineering services for site drawings of new equipment necessary for any permitting.
      3. Provide one time mobilization costs for the construction crews. Any remobilization due to interruptions/delays that are out of the Contractor’s control will result in additional costs.
      4. Contractor will be responsible for any installation or upgrades for code compliance, as applicable.
      5. Provide Turnkey services for complete de-installation, installation, and operation.
      6. Confirm all assumptions listed are correct for complete installation.
   2. Site Components Installation
      1. Remove existing generator and automatic transfer switch (ATS) from each site.
         1. Site # 1 Astor – Generac Model # 2545380100 Serial # 2068472
         2. Site # 2 Highway 50 – Generac Model # 2545380100 Serial # 2068474
         3. Site # 3 Lady Lake – Generac Model # 3240950100 Serial # 2072619
         4. Site # 4 Orange Mtn – Generac Model # 6695100100 Serial # 2088773
         5. Site # 5 Sorrento – Generac Model # 2918850100 Serial # 2070958
      2. Load generator and ATS on County supplied transport for disposal by County.
      3. Supply, deliver, and install one standby power generator (50kW Generac Generator, Fuel Type: Propane, with Weather Protected Enclosure) at each of the five sites on each existing pad/location, including interconnection wiring and connections between the generator, propane tank, ATS, and site electrical service mains.
      4. Provide generator battery(ies) and install trickle charger to maintain cranking voltage.
   3. Miscellaneous Work
      1. Reconnect and test all monitoring contacts utilized to monitor operations and failures of provided equipment.
      2. Bond all new fixtures, Generator, ATS, etc. as required to current R56 grounding standards.
   4. Warranty Information – provide warranty information.
3. **COUNTY RESPONSIBILITIES**
   1. Assign Project Manager
   2. Provide personnel to observe construction progress and testing of site equipment according to the schedule provided by the Contractor.
   3. Provide vehicle and personnel for transport of existing equipment being removed.
4. **DELIVERY REQUIREMENTS AND ACCEPTANCE.**
   1. Provide and accomplish Acceptance Test Plan and Equipment Turn-up for operational demonstration and certification.
   2. Demonstrate operations with a 24-hour runtime of generator.
   3. Demonstrate UPS operation and runtime without external power, with generator power, and with commercial power.
   4. Demonstrate selectable weekly test configurations with a runtime of a minimum of two (2) hours.
   5. Test and certify equipment operation with County representative to guarantee continuous power and back-up power to site equipment.
   6. Train County staff on operation and maintenance criteria.
5. **ASSUMPTIONS**
   1. Utilize existing propane tank(s) and lines.
   2. Work will be conducted during normal business hours (Monday through Friday, 8:00 a.m. to 5:00 p.m., excluding County Holidays).
   3. Existing UPS can be taken out of service to install new replacement, utilizing existing wiring, as well as existing mounting location(s) and or footprint(s).
   4. Existing Bypass Switch is compatible and can be utilized.
   5. Existing Feed wires from ATS to Generator can be utilized.
   6. Existing Generator and ATS can be taken out of service to install new replacement, utilizing existing wiring, as well as existing mounting location(s) and or footprint(s).
   7. Existing concrete foundation will accommodate new generator.
   8. Site will have adequate electrical service. Utility transformer, transformer upgrades, line, or pole extensions have not been included.
   9. Hazardous materials are not present at the work location. Testing and removal of hazardous materials, found during site investigations, construction or equipment installation will be the responsibility of the County.
   10. A maximum of 30 days will be required for obtaining approved building permits from time of submission.
   11. No access road or staging area improvements are required for the heavy construction equipment which could include concrete trucks, drill rigs, semi tractors and trailers, and cranes.
   12. If extremely harsh or difficult weather conditions delay the site work for more than a week, Contractor will seek excusable delays rather than risk job site safety.
   13. Alarming at existing sites will be limited to new component installations and will remain operational per the current installation on a site-by-site basis.
   14. The site(s) will have adequate room for installation of proposed equipment.
   15. A clear obstruction-free access exists from the antenna location to the equipment room.

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