



County of El Paso Purchasing Department  
800 E. Overland Room 300  
El Paso, Texas 79901  
(915) 546-2048 / Fax: (915) 546-8180

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## ADDENDUM 1

**To:** All Interested Proposers  
**From:** Linda Gonzalez, Inventory Bid Technician  
**Date:** January 9, 2008  
**Subject:** RFP # 08-180, (RFP) Upgrade of the Main Switch Gear at the Detention Facility

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The Purchasing Department received questions relating to the above referenced proposal; the response to the following question:

**1. Is it necessary to attend the pre-bid meeting since you have already listed the type of GE Breakers (AK-6D-30) along with the Trip units that are wanted instead of the Micro-Versa trip?**

No, it is not mandatory to attend the pre-bid meeting.

**2. What would we miss by not attending the pre-bidders meeting?**

Because no one can foresee what may develop during the pre-bidders meeting, this question can not be answered exhaustively. However, the contractor will miss an opportunity to directly ask questions of representatives of the County Purchasing Department and the Detention Facility Maintenance Section.

**3. Our Company repairs and upgrades Breakers all the time, but we also have Field Service group that works on these units ant a client's site as well. Would it be possible to bid on this work by sending technicians out to El Paso and changing out these trip units on all seven breakers within a couple of days, and only wants to send breakers might make performing the swap-outs more economical at your site. Is that an option?**

Yes, this is an acceptable option. However, the following requirements must be met:

- To ensure proper operation of the new solid-state trip devices, the circuit breaker must be thoroughly inspected and tested. High current, primary injection tests shall be conducted to ensure that the breaker trip units operate properly and comply with applicable time-current curves.
- The contractor shall contact all suppliers of parts, equipment, goods and services required for this project in order to secure accurate delivery schedules.

Based on these schedules, the contractor shall submit an accurate time schedule for the project; including the following information:

- The scheduled arrival of equipment, parts and material.
  - Time required for the completion of the entire project.
  - Start – Stop and completion dates for the project.
  - A written, detailed, equipment downtime schedule.
  - A written, detailed, schedule of the working hours; including day and night time hours.
- The contractor shall submit a list of employees, who will execute the work inside the Detention Facility, for a background investigation, with the following information to the El Paso County Sheriff's Office Identification and Records Section.

Name of employee: first, middle and last name

Employee's home address

Employee's date of birth

Employee's drivers license number

The Sheriff may deny access to security areas to any employee who failed the background investigation.

- All tools brought into the Detention Facility must be checked in and out daily. Employees of the contractor must supply a complete inventory list of their tools, power tools, and test equipment.
- All persons and their belongings may be subjected to inspections and/or searches.
- The contractor shall consider these potential delays when scheduling the work.
- The upgrade project will require equipment downtime. The contractor shall submit a detailed equipment down-time schedule to the jail administration section and the maintenance supervisor.
- If possible, major service interruption shall be scheduled for nighttime hours.
- These interruptions shall be limited in time.
- 24 hours, written notice for scheduled, time limited, system downtimes shall be submitted.
- Interruptions to the listed functions must be held to a minimum:
  - Food preparation for inmates
  - Transport and feeding of inmates mandated by law

Transport of inmates to and from medical treatment mandated by law  
Booking and releasing of inmates

- The work of the contractor may be interrupted by unforeseen emergencies within the facility. Up to eight men hours shall be included in this proposal and shall not qualify for additional monetary compensation. The contractor shall consider these potential delays when scheduling the work.

**4. After reviewing the specifications I see that the bid calls for the replacement of Micro Versa Trip Units with AC-Pro Trip Units. Our company designs and manufactures our own trip unit called the ETC-12 Solid State Trip Device. We feel that our trip unit is superior to AC-Pro's trip unit and less expensive. The ETC-12 trip device has many user friendly features that address the concern of arc flash and other safety related issues. My question is if we would be able to submit a bid using our ETC-12 solid state trip device?**

Yes, provided the new trip units meet or exceed the specifications of the trip devices currently in use and that the new trip units are suitable for General Electric AKR type circuit breakers.

**The Purchasing Department received the listed amendments to the above referenced proposal from the Detention Facility Maintenance Foreman:**

**1. Addendum to the original specifications.**

Conduct an inspection of the upgraded AKR type low voltage power circuit breakers as outlined in the maintenance manual for AKR-6D-30 draw-out circuit breakers. In addition, the inspection must include the following listed work:

**Visual Inspection**

Inspect the circuit breaker for loose or missing parts, burned wiring, evidence of overheating, damaged mechanisms and linkages, burned switches, contacts and charging motors, worn springs and mechanical tracking problems. Check the breaker for loose hardware and any hardware that has fallen from the breaker.

**Mechanical**

Tighten all screws and bolted connections.

**Operation**

Manually operate the breaker several times, checking for obstructions or excessive wear. Electrically operate the breaker several times to check performance of the electrical accessories. With arc chutes in place and removed, open and close breaker and determine that it operates smooth and without binding. During the operational check verify that the safety interlocks are working properly.

### **Control Devices**

Inspect all breaker mounted control devices.

### **Arc Chutes**

Remove arc chutes, and inspect for burns, cracks and broken parts.

### **Contacts**

Inspect primary contact fingers and secondary contacts of the circuit breaker.

### **Trip Devices**

Determine that the trip arms on the trip devices properly engage the trip bar and have proper amount of "over-travel". Determine that movement of the common trip bar will unlatch mechanism and trip breaker.

### **Adjustments**

Any required adjustments shall be performed in accordance with the manufacturer's specifications and instructions. The new trip devices shall be set to the settings of the old units.

### **Cleaning and Lubrication**

Clean the circuit breakers. Clean and lubricate the racking mechanism, open and close mechanism, primary and secondary contacts, and mechanical joints. Only manufacturer approved and recommended lubricants, cleaning agents and solvents shall be used.

### **Status / Position / Warning / Inspection Labels**

Replace missing or defective warning labels. Install inspection labels. Inspect all status labels such as "Open, Closed, Charged and Discharged". Fasten loose and replace missing labels.

### **Trip Units**

High current, primary injection tests shall be conducted to ensure that the breaker trip devices operate properly and comply with applicable time-current curves.

### **Resistance Test**

Contact resistance shall be measured with a low impedance test set.

### **Insulation Test**

Phase to phase and phase to ground insulation shall be tested with a megger test set. A minimum of 1,000VDC shall be applied to test the insulation. Higher voltage shall be applied if required or recommended by the manufacturer.

## **Test Equipment**

Only suitable test equipment may be used.

## **Manuals**

The contractor shall utilize maintenance, maintenance supplement, installation and operation manuals and other equipment related publications, issued by the equipment manufacturer, which may be required to conduct the work.

## **Reports**

- Provide a circuit breaker test report for every upgraded circuit breaker. The written test report shall include the following: Circuit Breaker Data, Inspection Observation and Electrical Test Results.
- Provide a list of all deficiencies found during the inspection.
- Provide a list of all required repairs and submit a repair estimate.