

# Courthouse Generator Replacement

Closing Date: Monday, January 3, 2011

## Addendum #2

Dated 12/21/2010

### Questions and Responses received as of 10/20/2010:

1. **Q:** #2 of the Scope of Work indicates utilizing the existing four-inch exhaust system will result in considerable exhaust back-pressure build-up for the unit I would propose. The only way I can stay under the back-pressure limitations posed by using the existing exhaust system would be to not include an exhaust silencer, which may violate local code requirements. Has anyone with the County looked into whether an exhaust silencer can be omitted from the exhaust system with the new generator in order to stay under the back-pressure limitations?

**A:** The county desires this new generator to meet all current applicable codes and regulations, and it is up to the vendor to insure that it does as part of the bidding process (See RFP SOW I.2.c & I.11). Because of the location of the generator in an interior room in the basement, the county's Building Inspection Division may allow for the silencer or muffler to be omitted. Vendor will need to verify this on his own, as all units are different.

2. **Q:** #2 of the Scope of Work: My back-pressure analysis assumes two 90-degree Medium Bends and two 90-degree Long Bends for the existing exhaust system - is this a safe assumption?

**A:** Vendor is responsible for verifying bend lengths visually and may be assisted by examining the backpressure calculations supplied by FRANK BOOTH, available here on this website.

3. **Q:** #7 of the Scope of Work: The use of a sub-base fuel tank is going to force a requirement for the fuel tank vents to be routed out of the building, terminating at a point 12-feet above grade. This assumes that the termination points of the fuel tank vent extensions are no where near windows, building air intakes, or any means by which diesel fumes could find their way back into the courthouse or any other nearby building.

If this is the case, then the fuel tank vents will have to be extended beyond 12 feet or to a point deemed acceptable by the local fire marshal. Has anyone at the County looked into what the local code requirement is regarding diesel fuel tanks? How will the sub-base fuel tank be filled? Does there need to be a remote fill station on the exterior of the building? Please note that the extensions and modifications to the fuel tank vents would have to be provided by a mechanical contractor. This also holds true for the installation of the remote fill station, if needed. Has a mechanical contractor been contacted by the County?

**A:** Vendor is responsible for following all applicable codes, regulations, and requirements and paying associated mechanical/engineering costs for diesel fuel tanks and fuel tank venting. County will fill fuel tank from fuel vehicle in basement, and we do not require a remote fuel station be added.

4. **Q:** #8 of the Scope of Work calls for a new transfer switch. Please confirm whether a new transfer switch will be required to be provided with the new generator, and if so what the switch design requirement is.

**A:** See Addendum #1 dated 12/20/2010; clarification items 4 and 5.

5. **Q:** The RFQ does not describe what the generator Start-Up & Commissioning requirements are. Will the County require On-Site Testing? If so, what are the requirements?

**A:** See Addendum #1 dated 12/20/2010; clarification item 10.

6. **Q:** My proposed unit will create 301 Amps of current at 480 volts. Is the existing system capable of handling this current?

**A:** Current panel is rated at 225 amps. Any new unit that exceeds this (Option 1) will require the transfer switch, panel, breakers, and wiring to be upgraded to accommodate the increased amperage for the new unit. A replacement generator of the same size (Option 2) will not. **A:** See Addendum #1 dated 12/20/2010; clarification items 4 and 5.

7. **Q:** NFPA requires that the certain fuel tank parameters be remotely annunciated. Please confirm whether a new remote annunciator will be required to be provided with the new generator.

**A:** The county desires this new generator to meet all current applicable codes and regulations, and it is up to the vendor to insure that it does as part of the bidding process (See RFP SOW I.2.c & I.11). If no applicable codes or regulations require remote annunciation, then we are not requiring it.

8. **Q:** The new generator is going to have greater cooling air requirements than the existing unit, and it appears the existing air vent orientation will not be adequate to allow for sufficient cooling air into the generator area. Is the County going to contact an HVAC engineer to address this question?

**A:** No. See RFP SOW I.2.e. If a vendor wishes to include air vent modification required to accommodate new generator, he may include any associated costs in his estimate.

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