

TO: All Bidders
Refurbish Boilers CB#2 and CB#3 at the Newark Campus Power Plant
(Proposal RFP# P05-039)

FROM: Richard Gall, Procurement Specialist
Purchasing Services

SUBJECT: Addendum#3- Answers to Questions Submitted by Bidders (Six (6) Pages).

DATE: January 10, 2005

Addendum #3– RFP# 05-039

Questions Submitted by Powerhouse Equipment and Engineering

1) Question: Section 3.1.9- Phone Numbers for testing companies

Answer: Arrow Environmental: Phone: 610-597-1770 or
Auoqodro Company: 908- 218-1357

2) Question: Section 3.4.1 - Tube Material – All boiler tubes are 2 1/2” OD currently.

Answer: Yes UMDNJ wants 2 ½ inch OD, which currently exists.

3) Question: Section 3.4.8 - Insulation - This section calls for a casing surface temperature of 80 degrees F. ABMA standards are now 140 degrees F. We suggest that UMDNJ revise this section to read "Casing surface temperature as per original Cleaver Brooks boiler design requirements."

Answer: Surface temperature must be 80 degree F. (OSHA applies).

4) Question: Section 3.6.1 - No. 2 Boiler work - The number of tubes to be replaced on the front and rear wall of the boiler is in question. According to the manufacturer there are approximately fifty-four (54) tubes classified as front wall tubes. This does not include the two (2) parasite tube assemblies that cool the front burner wall. The number of tubes classified by the manufacturer as rear wall tubes is seventy (70). Is the intent of your scope to replace this number of tubes? Do you want the parasite tube assemblies replaced?

Answer: UMDNJ wants the parasite tubes replaced. The intent of the spec. is to replace whatever number of tubes make up the front and rear wall as stated in spec. for boiler # 2. This is a refurbishment process.

5) Question: Section 3.10.7 - At the non-mandatory walk-through on January 4, 2005, we were unable to access the starters for the existing FD fans. With larger fans to be expected with the burner installation we could not determine if the starter size is adequate. We suggest that the proper size FD fan starter be supplied by UMDNJ to integrate this item in the motor control center.

Answer: The fan start replacement is to be compatible to new burners and fans. Prime Contractor to provide.

6) Question: Section 3.11.1 - Can you change phrase in the first sentence from "shall be reused" to "may be reused?"

Answer: Phrase changed to 'may be reused' based on contractors design installation review with UMD power plant staff.

7) Question: 3.12.3 D How many years do you require factory training sessions?

Answer: One year from testing completion.

8) Question: Is there a specific waste disposal company that the contractor must use?

Answer: No specific company. UMDNJ 'suggests' Waste Management Co., who did Boiler # 1, due to their prior experience at UMNJ on boiler #1.

9) Question: Section 4.15 Compensation of Payment - Many of the tasks on the RFP pricing sheet require many months to complete. Will UMDNJ accept progress payments on a percent of completion basis for some of those tasks? (i.e. Item #7 complete retube of Boiler #3 could take six (6) months - would any payment for this item be made prior to completion?)

Answer: Add to Section 4.15 – Form of Compensation and Payment. Payments are scheduled via master schedule task and AIA progress payments, approved by Power Plant Physical Plant after award to successful bidder.

Questions submitted by Cortese Corporation.

10) Question: Page 10, Section 3.06 - Is the emission testing to be performed using EPA approved analyzers to demonstrate NJDEPE compliance or can a portable combustion analyzer be used? If EPA approved analyzers are to be used, who is responsible for developing the protocol for submittal to the NJDEPE for compliance testing? The development of a protocol is normally written and submitted by the party responsible for permitting the boiler, in this case UMDNJ, and when the permit emission levels have been established.

Answer: UMDNJ has recommend Arrow Co or Auoqodro Co. We agree with 'their process' to meet NJDEP and EPA compliance for NJ boilers. See answer to question #1 for phone numbers.

11) Question: Page 11, paragraph 3.1.13 - Is the I-beam and trolley to be designed to carry the weight of the entire burner assembly including the windbox or is it intended to support the weight of the burner register only or perhaps the oil burner gun assembly only?

Answer: I - beam to carry the burner unit, one piece assembly. The windbox, register and gun can be taken off.

12) Question: Page 11, Section 3.1.17 - Is the warranty the standard one year type and when would the warranty start?

Answer: Spec. calls for a one year warranty that starts at the completion of testing and commissioning.

13) Question: Page 12, Section 3.1.24 The information that was discussed at the non mandatory bid walk conflicts with the written directive of this paragraph. Please clarify the extent of the fuel oil piping work.

Answer: Clarification-Section 3.1.24- The piping from the inside vault to the inside of power plant is to be double wall steel containment type with standard leak alarms as discussed at walk through.

14) Question: Page 12, Section 3.1.25 This paragraph states that the contractor will remove the #6 fuel oil pump set and piping. Please confirm that the pump set will remain.

Answer: Clarification- Section 3.1.25- The fuel oil pump and heaters (pump set) is to be abandoned in place. The # 6 pipe from the pump station to all the boilers is to be removed. The # 6 piping from the pump station to the vault is to be abandoned in place but must be capped in the vault by the contractor.

15) Question: Page 12, Section 3.1.27 discusses tank modifications. Is this work included?

Answer: All work in spec. under Section 3.1.27 must be included by the Contractor.

16) Question: Page 13, Section 3.2.1 The paragraph states that rebuilt valves maybe be acceptable? Are rebuilt valves acceptable or are they not acceptable?

Answer: Per the spec. most valves will be replaced. Per spec. a list of valves will be provided by UMDNJ for review an approval by power plant staff.

17) Question: Page 15, Section 3.4.6 Boiler# 2 already has new warm up coils and piping installed. Are the new warm up coils for boiler# 3 only?

Answer: Yes, a new warm-up coil is required for boiler # 3 . Boiler # 2 is fairly new.

18) Question: Page 16, Section 3.7 the paragraph states that the contractor will supply double wall piping to and from the tanks. At the walk through it was discussed that it would be from the vault wall. Please confirm.

Answer: Double steel is to be used between the inside of the vault wall to the inside of the power plant wall for both present # 6 fuel tanks.

19) Question: Page 21, Section 3.11.10 - Is the boiler draft loss available for the sizing of the forced draft fan?

Answer: No. The draft loss is to be established as part of the refurbishment configuration.

Questions submitted by The Energy Company.

20) Question: Can the existing oil supply and return main lines that feed boilers# 1,# 2 & #3 be removed at the start of the project, or do they need to stay in place to feed the # 1 boiler? I am assuming they can be removed at the project start date seeing as how you are changing to #2 fuel oil.

Answer: No. The main lines must stay in to feed #1 and #3 and #2 in refurbishment. There needs to be oil firing capability at all times. Once #2 is complete, then #3 oil lines can be removed. Change over on #1 to # 2 fuel

21) Question: What is the phone number to Andrew McNeil Testing Co.

Answer: See answer to question #1.

22) Question: Is it safe to say that one (1) boiler must be completed within a year, let it run for a month then start the following unit?

Answer: Yes.

23) Question: Has an asbestos survey/abatement been performed? If asbestos is encountered who is responsible for the removal? Is it over and above the contract?

Answer: Yes, survey has been performed by UMDNJ. Removal of asbestos is UMDNJ's responsibility

24) Question: What is the maximum steam pressure on the steam line that feeds boilers # 1 and # 2 mud drum coils?

Answer: Existing steam pressure is approx. 250 psig operating pressure. Relief valve design will be based on refurbishment design.

25) Question: Section 3.2.2 calls for the Contractor to remove all non-recyclable materials. Is UMDNJ responsible for removal of all recyclable materials? If so, is UMDNJ providing dumpsters to put material in?

Answer: No, UMDNJ doesn't provide dumpsters. Contractor provides. Contractor is to removal all materials except asbestos

26) Question: Do you want the Contractor to insulate all new piping with fiberglass insulation?

Answer: Yes, fiberglass insulation on all heat piping.

27) Question: Does UMDNJ have a complete set of approved boiler assembly drawings as provided by the boiler manufacturer? If so, may we have a copy?

Answer: No additional drawings are available from UMDNJ. Cleaver Brooks standards must be obtained from them.

28) Question: Section 3.12.3 – Training is on an annual basis. How many years and how long would you like each session to last?

Answer: Training is at the completion of boiler #2 and # 3. Training requirements are normally one week on design and documentation provided to UMD and one week on boiler operations. The power plant will provide the list of those to be trained at UMDNJ facilities.

29) Question: Specifications Section 3.2.1 and 3.8.4 requires the burner and boiler to meet NJDEP (SOTA) standards. The stated emission levels for NOx levels are 0.010 MMBTU / Hour for natural gas and 0.0300 MMBTU /Hour on fuel oil for units greater than 75 Million BTU. SOTA also requires the use of low NOx burners, FGR and SCR to achieve these levels. Is SCR technology required on this project to meet the SOTA requirements if the low NOx burner with FGR can not achieve the published levels."

Answer: We do not require SCR, we do however require FGR with low NOx burners.

End of Addendum#3