



Bidding RFI Response – 28 September 2015
Energy Corrections per ECM Audits
Cheyenne VAMC
Project # 259-14-R-0070

1. Is the Control contractor required to provide replacement control valves on every air handling unit or just replace the pneumatic actuators with electric actuators if possible? The plans are not very clear on this issue. On AHU 1 it is clear that the Control contractor provides replacement valves. Where does it designate that the mechanical contractor is supposed to install control valves for AHU's (#2, 4, 5, 6, 7 & 8) and AHU 11 and 18? Several mechanical contractors have called and they are not sure if installation of control valves is required.
Response: The intent of the valve schedules provided on Sheets 1CA.MH501-MH507 (indicating sizes and chilled water flow rates) was to have each of these indicated existing pneumatic valves replaced with new DDC valves, complete with valve bodies and actuators.
2. Is the Control contractor required to replace the DX-9100 controllers or is the Control contractor required to replace all of the field sensors and the controllers on the designated units?
Response: The intent is to replace each existing AHU controller and miscellaneous controller per specification section 230923 with a new BACnet controller and upgrade the necessary communications and ECC as required.
3. The DDC points lists calls out for full communication to the VFD's in the points list for each AHU. I don't believe the VFD's in the CA penthouse MCC are capable of BACnet MS\TP interface (There are 6 return fans and 9 supply fans in the MCC's. Additionally there are 6 exhaust fans and a pump). It seems that running communication bus to the location of the future VFD's at the units would be a better value for the VAMC. Please clarify what is required in terms of VFD integration?
Response: Should the existing VSD not be capable of full communications, expectations are that the functions indicated by the controls points list be implemented at a minimum.
4. The DDC points lists calls out for full communication to the VFD's in the points list for each AHU. I don't believe the VFD's in the CA penthouse MCC are capable of BACnet MS\TP interface (There are 6 return fans and 9 supply fans in the MCC's. Additionally there are 6 exhaust fans and a pump). It seems that running communication bus to the location of the future VFD's at the units would be a better value for the VAMC. Please clarify what is required in terms of VFD integration?
Response: Refer to response #3 above
5. Is the contractor required to perform all of the work after normal business hours?
Response: This is a COR and contractor's responsibility to coordinate. A/E cannot provide guidance other than all ICRA , dust control and operation restraints must be considered as part of the "Layout of Work". Per the project COR, any work requiring the shutdown of an AHU will have to occur at night or over a weekend. AHU-18 is a 24/7/365 patient ward unit which will require movement of patients. With this in mind, the work can be done during normal business hours.
6. Is the Control contractor required to provide replacement control valves on every air handling unit or just replace the pneumatic actuators with electric actuators if possible? The plans are

not very clear on this issue. On AHU 1 it is clear that the Control contractor provides replacement valves. Where does it designate that the mechanical contractor is supposed to install control valves for AHU's (#2, 4, 5, 6, 7 & 8) and AHU 11 and 18? Several mechanical contractors have called and they are not sure if installation of control valves is required.

Response: Refer to response #1 above

7. Is the Control contractor required to replace the DX-9100 controllers or is the Control contractor required to replace all of the field sensors and the controllers on the designated units?

Response: Refer to response #2 above

8. The DDC points lists calls out for full communication to the VFD's in the points list for each AHU. I don't believe the VFD's in the CA penthouse MCC are capable of BACnet MS\TP interface (There are 6 return fans and 9 supply fans in the MCC's. Additionally there are 6 exhaust fans and a pump). It seems that running communication bus to the location of the future VFD's at the units would be a better value for the VAMC. Please clarify what is required in terms of VFD integration?

Response: Refer to response #3 above

9. On AHU 2 the plans, page ICA.MH.502, indicates that the Control contractor is required to provide occupancy sensors and pilot lights in the ICU rooms. However, the plans do not identify which rooms on the floor plans and no rooms are labeled ICU. Please identify which rooms on ICA.MH.602 require occupancy sensors and pilot lights?

Response: Drawing 1CA.MH602 – Rooms B2-46, B2-44, B2-42, B2-20, B2-18 and B2-16.

10. Is the contractor required to perform all of the work after normal business hours?

Response: Refer to response #5 above.

11. The current bid schedule lists just two deductive alternates, one for removing work associated with AHU-14 and another for work associated with AHU-19. Will this include removal of all control work?

Response: Yes.

12. The plans reference a bid alternate that do not coincide with the bid schedule. See note for bid alternate 1 defined on 1B.MD404 -How are we to handle this note?

Response: Please refer to Amendment #002 for the new 01 00 00 General Conditions Specifications 1.2 Statement of Work for the new base Bid and Alternate Items

13. Please provide detail on the scope of work for replacing the damper linkage shown on 1A.MD403.

Response: The extent of the new damper linkage shall only be what is required to convert the actuator form the existing pneumatic to the new digital actuator. The damper is in adequate condition to operate form the existing actuator.

14. Please provide detail on the scope of work for replacing the damper linkage shown on 1A.MD402.

Response: The extent of the new damper linkage shall only be what is required to convert the actuator form the existing pneumatic to the new digital actuator. The damper is in adequate condition to operate form the existing actuator.

15. The control points for AHU-11 on the plans are incorrect. The unit observed in the walkthrough was a 5 zone multizone. The points list on the plans for ahu-11 are not for a multizone unit. Could the addresses have gotten mixed up? See 1A.MH501 for AHU-11 points list. Please indicate location of staging area for equipment, materials and dumpster.

Response: AHU-11 is NOT a multizone unit and DOES require a DDC controls retrofit. AHU-14 is a multizone unit which DOES NOT require a DDC controls retrofit but is part of the AHU re-commissioning scope ONLY.

16. What are the required steam flows for the AHU control valves that are being replaced (LB/HR)? This information is required to properly size the control valves.

Response: The attached schedule is being provide for the original design steam flow rates for these AHUs in question.

17. What are the inlet steam pressures to the steam valves? This is very important information to provide on the plans for valve sizing. Inlet steam pressure is required to determine actuator close off torque.

Response: All valves can be assumed to have 12-15 psi inlet pressures.

18. There are multiple alternates reference in the electrical drawing under the key notes. For example on drawing number EL107 key notes 2 and 7 reference bid alternates. These bid alternates are not numbered and are not described in the bid schedule. Are we to price these bid alternates? If we are to price these bid alternates are they all under the same alternate.

Response: There are no 'E' drawings are part of this set.