

Questions and Answers emailed to tracy.jackson2@va.gov | VA259-13-R-0956

1. **QUESTION:** To what extent is test and balancing going to be required? Are we going to have to go to each component that the new system is serving and conduct test and balancing on each component?

ANSWER: Contractor shall verify system flow and temperature drop across the chiller.

2. **QUESTION:** If contractor is required to test and balance each component, is a diagram showing each component going to be provided?

ANSWER: No additional information is required.

3. **QUESTION:** Is a commissioning agent going to be assigned to this project as stated in the specifications? Or, are we just going to provide a factory representative to start-up the unit witnessed by the COR?

ANSWER: Contractor to provide factory representative start-up witnessed by the COR. Spec section 23 08 00 Commissioning of HVAC Systems shall be excluded from the project.

4. **QUESTION:** With regards to digital controls, are we just tying into an existing master control system or providing a new control system, including laptop, just for the new unit?

ANSWER: The existing chiller is connected to the existing control system. The new chiller shall be connected to the existing control system.

5. **QUESTION:** Understand that the new unit must be equipped with a Bacnet card. Is the contractor going to connect the unit to the existing master control system or is the company servicing the campus master control system going to make the connection?

ANSWER: The contractor shall coordinate with the local controls vendor for connecting the new chiller back to the controls system.

6. **QUESTION:** Whose Bacnet card is required (Johnson, Siemens, etc)?

ANSWER: BACnet card shall be provided by the equipment manufacturer integral to the unit.

7. **QUESTION:** The plans make reference to an equipment pad standard detail. Will the standard detail be provided?

ANSWER: Existing equipment pad is to be reused. Contractor shall provide any pad alterations as required to for the new chiller.

8. **QUESTION:** How is the existing unit to be prepared for storage? Shrink wrapped, tubes dried with nitrogen, chemical added and wet stored, or something else?

ANSWER: See the below sequence for storage:

- Front seat both condenser liquid service valves.
- Put both circuit switches to the OFF position (Pumpdown and Stop position)
- After the compressors have stopped put System Switch (SI) to the OFF position (emergency stop).
- Front Seat both refrigerant circuit discharge valves (if applicable)
- Fully drain evaporator and water piping.
- Provide physical protection for condenser coils.
- Fill in bass openings with plywood.
- Shrink wrap entire chiller.

9. **QUESTION:** Does the buffer tank need to be insulated?

ANSWER: Refer to sheet MP-201 Key Note #6

10. **QUESTION:** Please clarify the system flush requirements? What is in the system now?

ANSWER: Spec section 23 25 00 HVAC Water Treatment details flushing requirements and closed loop chemical water treatment.

11. **QUESTION:** Are there any special bid bonding forms needed? **ANSWER:** No