



Oregon

Kate Brown, Governor

Department of Corrections

Purchasing Section

3601 State Street, Suite 280

Salem, OR 97301-5780

(971) 707-0238 (voice) 371-3161 (FAX)

Ryan.N.Kirtley@doc.state.or.us

11/09/2020



ADDENDUM 3
For
291-1993-20 OSCI HVAC UPGRADE

Below you will find Revisions, clarifications, deletions and/or additions to the bid specifications. This addendum modifies the related Invitation to Bid only to the extent specifically indicated herein. All other areas not specifically mentioned or affected by this addendum shall remain in full force and effect.

This addendum shall be added to and become part of the original Invitation to Bid.

1. Clarification; Point of connection to ODOC IT/Data/Ethernet: The point of connection to the Facility data backbone is at the patch panels located in the electrical portion of the tunnel system. Contractor is responsible for routing Ethernet CAT 6 cable up to each mechanical room/BACnet panel. Contractor shall provide a BACnet Building level controller at each mechanical room, with CAT 6 cable routed back to the patch panels in the tunnel.
2. Clarification; Can OSCI please clarify how far they want the existing pneumatics to be demo'd?
Answer; Demo all tubing, and cap all terminated sections. Copper tubing to remain.
3. Clarification; In the spec (section 1.1.1.6.A) it states that 6 copies of the submittal shall be submitted with the bid. Is this correct or is this something that can be submitted at time of Intent to Award or via email?
Answer; Electronic submittals are acceptable – submittal data is not due until after contract has been awarded.
4. Clarification; Section 1.1.1.12 appears to have an error. It specifies a warranty period of 1224 months. Can this be corrected? We assume section 1.8.B spec of 1 year parts & labor is the correct warranty period.
Answer; Warranty shall be 12 months
5. Clarification; Will all controls wiring need to be replaced? This was mentioned by the engineer during the walk. He said it would.
Answer; It was anticipated that all wiring would be replaced since most wiring was from E to P modules - -however the contractor may re-use wiring but is completely responsible for providing a functioning DDC system and would thus take ownership of and re-used wiring.
6. Clarification; Will conduit be required in all mechanical spaces?
Answer; Conduit only required where accessible to AICs or susceptible to easy



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damage due to being located lower than 7' – follow NEC for all wiring guidelines.

7. Clarification; Does the piping need to be insulated if entire valve is replaced?
Answer; Contractor only responsible for replacing insulation on components have replaced or touched as part of controls scope.
8. Clarification; Will piping need to be insulated if only valve tops are replaced?
Answer; No
9. Clarification; Drawings do not show units 12,14,15,16, & 18. Do these units exist, and can we get drawings for them?
Answer; These units no longer exist – all available drawings have been provided.
10. Clarification; Drawings show 3+ versions of unit 19. Which is correct? Are they all active systems?
Answer; Existing drawings show multiple versions of unit 19 – unclear at this time as to which one is exactly correct.
11. Clarification; Is there any reason we can't install new temperature sensors where current sensors are located? Drawings specify to coordinate thermostat location with owner.
Answer; Intent is to install new sensors at current sensor locations, unless owner has any specific requests - for bidding purposes, assume replace at existing locations.
12. Clarification; Are there any control drawings for the Reliable DDC system?
Answer; No, all known available drawings have been provided.
13. Clarification; Please clarify what is included in replacing the existing DDC system. Does it include all other? peripheral devices such as relays, current sensors, transformers, duct temperature sensors NOT specifically indicated below. Also, can the existing enclosures be reused if they are in the correct locations?
Answer; The Project includes all peripheral items listed above to provide a complete and functional DDC system. These items may be re-used but the contractor is responsible for providing a fully functional DDC system and would thus take ownership of these devices and all such devices shall include a 12 month warranty period, whether they are new or re-used.
14. Clarification; We suggest that the existing peripheral equipment cabling/wire may be re-used if it acceptable to the DDC manufactures standards. Also if the existing cabling/wire is damaged it is this contractor's responsibility to repair or replace to make operational at their expense.
Answer; Correct, and as noted above about warranty period.
15. Clarification; OSCI Phase III Energy Package drawings 1992
 - a. Drawing M2 – Unit#19 (Newer) - this would be 1969 addition
 - i. There are 9 units schematically shown but we can't match them up to units shown on the Controls Upgrade M3.7, 3.8 or 3.9?
 - ii. Perhaps have these units been changed to the Unit #19 Post 1969 Rooftop Units





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shown on M3.9

b. Our internal Delta Controls records has these 9 units as Newer Addition thus matching this drawing M2

c. We also have internal Delta Controls records for the 10 units for the 1962 (Old) addition and they match your Controls Upgrade M3.7

d. We also have internal Delta Controls records matching the 4 Penthouse Air Handling Units shown on page M2.6 Detail 4 (Which is in the Newer Addition) also matching the new Controls Upgrade set M3.8

Answer; Please bid the project based on the info provided on the Design drawings and as noted above from Delta Records. Design drawings were based on best possible information from various years upgrades – exact unit configurations could not be verified due to COVID access issues at the time of design. Schematic diagrams were shown on the M3 Series sheets in case specific unit configurations still existed.



16. Clarification; We are requesting to use a complete BACnet BTL listed system from Head End Software down to terminal unit controllers without extra third-party products such as Niagara or JACE boxes?

Answer; This is acceptable and desirable.

a. The Delta Controls system is a complete BACnet system requiring no other non BACnet devices/software such as Niagara or Siemens Launch Pad to meet the specification.

b. There are entire sections such as 2.1.1.3.4 that seem to exist to get around existing limitations in the specified Siemens products

17. Clarification; We are suggesting that BACnet/IP would be required in each Unit's mechanical room to ensure maximum network performance going forward the next 20+ years of the DDC system?

a. The Primary network is specified to be BACnet/IP (10 to 100 MB speed) but the specification (2.1.1.7.D.6) then gives exceptions to allow much lower performance BACnet MS/TP (78,600 baud) if the fan CFM is less than 15,000.

b. Looking at the fan system schedules this would mean that only 2 Units would need a BACnet/IP Building Controller even though some of the units have a multitude of air handling units.

c. The existing Network installed in 1994 located in each mechanical room per unit was 1 MB, basically 13 times faster than BACnet MS/TP.

d. We suggest the intent for the next 20+ years would have a higher performance network backbone to provide the operators a high-performance head end and ensure emerging technologies that are extremely network demanding can be implemented.

Answer; The contractor is responsible for running Ethernet Cat 6 cable from the electrical tunnel patch panel to each mechanical room/BACnet panel.

18. Clarification; Specification clause 2.1.1.2.Q is slightly vague

a. On each floor, wing, or major mechanical room provide an Ethernet RJ25 connection

b. The use of "or" implies that only one connection location is required, is this the intent?

Answer; No, the intent is for a Ethernet connection at each mechanical room, or central tunnel location.



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19. Clarification; Tunnel heat exchangers, can controller be mounted in Electrical Tunnel due to ambient heat concerns?

Answer; The electrical tunnel/side should be within manufactures limits for ambient heat - -yes, please mount in electrical side.



20. Clarification; We are requesting the approval of Belimo Valves for section 2.1.1.14.H?

Answer: Approved

a. Low pressure steam

i. What type of valve trim do you want, bronze or stainless steel?

Answer: Bronze

ii. Belimo Valves:

1. Globe valve series G2B (Bronze trim), or G2S (Stainless steel trim)

2. High temperature CCV Valves (Stainless steel Ball and trim)

Answer: Yes

b. Medium pressure

i. We assume you want stainless steel trim?

Answer: Yes

21. Clarification; As you are getting all new valve and damper actuators do you want Position Feedback?

a. The feedback signal is standard for all the Belimo actuators, except for the very smallest

Answer: Yes, we would like this feature where possible.

b. If you want us to pull new wiring for all controls picking up this point would be extremely easy but either way we have to add wiring to get to the valves and dampers as presently the signals are pneumatic.

Answer: Yes, and this is correct.

22. Clarification; Will the smoke detector also be connected to fire alarm system?

Answer: No not at this time – future dry contact connection if fire alarm is upgraded

We noticed that there is a bid for the fire alarm upgrade at this site

Answer: Sprinklers not fire alarm.

b. Would these smoke detectors be supplied and installed under the new fire alarm upgrade.

Answer: No, please provide new smoke detectors as required for mechanical code for fans over 2000 cfm (where smoke detectors are not existing or cannot be re-used).

This addendum represents a material change to the ITB and is required to be signed and returned by the Bid Closing Date and Time. Failure to do so may result in bid rejection.

Company Name: _____



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Authorized Signature: _____

Date: _____

