

TENDER ADDENDUM

No: 02
Project: Nitrate Film Preservation Facility HVAC Remediation
Client Ref: R.067978.001

Date 23/06/21

The following changes to the tender documents are effective immediately. This amendment will form part of the contract documents.

Amendment 002 is issued for the following:

(1) To provide Questions and Answers

Question 01

We're looking to see if the consultant can provide more detail on the humidifier installation there's not really anything shown on the drawings and it doesn't say which phase they are to be installed in. Could you please clarify?

Answer 01

Humidifiers shall be installed within the same phase as the air handling unit they serve (phase 6 for RC-AHU-03 and RC-AHU-04 and phase 8 for RC-AHU-05).

Question 02

We would also like to clarify if there is a requirement for new concrete pads as there aren't any mentioned on the drawings or notes.

Answer 02

Modifications to existing concrete pads and the provision of new ones in new locations is required to allow for the new equipment to be installed, both internally and externally.

Question 03

We also received an inquiry from one of our pump suppliers indicating they can't bid the job because what's being asked for isn't available. Here are the comments we received:

"The specification seems to be based around a vertical inline split-coupled design (flexible coupling, radially split casing, stainless steel shaft, etc) but that style pump is not commercially available for many of the small capacities they list. "

Answer 03

Close coupled design is acceptable for the smaller duty pumps. Note the importance of high quality equipment and materials, where close coupled design pumps are proposed please ensure the components are the most resistive to corrosion / wear and suitable for the 50% glycol concentration.

Question 04

- Dry Cooler
 - What OAT and glycol temps should we be sizing this unit for? The schedule does not have all of that information
- Desiccant dehumidifier
 - What is the temperature of the regen air in the summer time? And where is this air coming from (OA, room exhaust)? Really, we would need the following humidifies in order to see if we need any precooling and to properly size the desiccant wheel:
 - Outdoor air
 - Summer DB/WB: 30C/??
 - Winter DB/WB: -25C/??

 - Return air
 - Summer DB/WB: 6.5C/??
 - Winter DB/WB: 6.5C/??

 - Regeneration air
 - Summer DB/WB: 14.1C/??
 - Winter DB/WB: -15C/??

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- AHU Fans
 - o Is there any requirement for these units to meet AMCA A spark resistance? I see a note in one of the fan spec sections asking for this but nowhere else in the AHU or fan specs. There is a significant difference in cost between AMCA A spark resistance and standard units so let me know if this is really required!
- Exhaust Fans – same note as above. Are AMCA A spark resistant fans required?

Answer 04

Dry cooler: -25°C DB and 50% glycol (same as chillers)

Dessicant wheel: summer WB 21°C, winter WB temp equivalent of fully saturated air

Return air: moisture gain within vaults is very low (negligible) so moisture content of supply air going into vaults will be maintained / the same as the return air moisture content, therefore the WB can be calculated for the return air.

Regen air: peak conditions are 30/21 DB/WB for summer, -15/100%RH winter.

AHU / exhaust fans: yes, please allow for AMCA A spark resistance.

Question 05

Can you confirm the quantity of disconnect switches required for this project? Drawing E4. Notes 1 – 8 say Disconnection switch for AHU. But when on the drawing it shows 22 disconnect switches. On drawing E06 single line diagram, it also shows 22 disconnect switches

NOTES:

- ① — ⑧ DISCONNECTION SWITCH FOR AHU, POWER SUPPLIES AND DEHUMIDIFIERS POWER SUPPLIES.
- ⑨ — ⑪ POWER SUPPLIES FOR CHILLERS, DRY AIR COOLER ETC TO BE ADDED.
- ⑫ — ⑭ POWER SUPPLIES FOR DEHUMIDIFIER EQUIPMENT
- ⑮ — ⑳ POWER SUPPLIES FOR CIRCULATION PUMPS

Answer 05

22 disconnect switches required as shown on this drawing (switches are labelled from 1 to 22, split down into sections to reflect type of plant).

Question 06

Drawing E02 show 5 existing light fixtures (Type 4) to be relocated. The location which they need to be relocated show 7 light fixtures in total. Does the contractor need to provide 2 new Type 4 light fixtures?

Answer 06

7 existing light fixtures (shown hatched) to be relocated, no new light fixtures required.

ALL OTHER TERMS AND CONDITIONS REMAIN THE SAME