Chiller 2 Replacement at the Canada Centre for Inland Waters
Burlington, Ontario

Questions and Answers

Q1. Please provide a copy of the Designated Substances Report mentioned in Specification Section 01 14 25.
R1. Please refer to Buy and Sell, Solicitation Amendment No. 002, Attachment No. 006 - Hazardous Building Materials Assessment

Q2. Please confirm if the new chiller will be owner supplied? If not is there a preference of Make and model?
R2. The chiller shall be supplied through this contract. See ME3 for the chiller schedule.

Q3. It was mentioned in the walk through but please confirm that existing chiller and related pipe will be decommissioned drained of all chilled water and the refrigerant removed before this contracts work begins.
R3. All water will be drained and all refrigerant will be removed prior to general contractor mobilization.

Q4. Please confirm that general notes in the lower right hand portion of page ME1are unnecessary duplicates of the General Notes shown in the upper center portion of page ME1.
R4. Both sections are important.

Q5. Please confirm what portion of the scope of controls work will be performed by Delta controls under the Mechanical prime contractor and what portion of work Delta controls will price straight to the customer. (Refer to note B under general note about owner supplied control wiring).
R5. There will be a controls allowance of $15,000 which will cover labour of a controls technician from delta controls.

Q6. Please, clarify who will carry the cost of controls?
R6. The general carries a $15,000 allowance for controls labour.

Q7. Please, confirm that the chiller cables are located in crawl space underneath the mechanical room and that location is considered confined space.
R7. Yes it is a confined space beneath the boiler room.

Q8. Please confirm the exact location of the existing chiller (basement, ground level?) and the route to bring out the old chiller and to bring in the new.
R8. The chillers are placed on the ground floor. There is an access bay that is large enough to remove the chiller and install it without any issues

Q9. Please provide additional details on free cooling option 2.9 requested including temperature inlet and out let for evaporator and condensers and also flow rate.
R9. See ME3 regarding chiller temperatures and flow rates

Q10. Are the controls, valves piping and storage vessels to be mounted on the chiller?
R10. Mention of a storage vessel was deleted from the specifications.
Read the drawings for valve and controls locations.

Q11. What is the required size for the storage vessel?
R11. Mention of a storage vessel was deleted from the specifications.

Q12. Re: Drawing #ME1, Part 1, Item “d” which states, in part, “Disconnect & remove 6 x 4/0 cables from Chiller #1 motor starter cabinet to crawl space…re-route the 6 x 4/0 cables to Chiller #2 motor starter cabinet? If not, please clarify if existing cables are to be spliced & extended or is the existing cabinet to be relocated to a closer position to where the cables can be connected.

R12. Existing cables are long enough to reach existing chiller 2 starter cabinet.

Q13. Re point 2.3 ---- Are high pressure chillers allowed using R-134A refrigerant? (At this time unlike R-123 that Trane uses R-134A has no phase out date)

R13. Refer to the chiller schedule on ME3 for the acceptable refrigerant

Q14. Is there any interest in a magnetic bearing chiller?

R14. Negative

Q15. There is no information to quote from. There is no Single-line, VFD Specification, and VFD control schematics.

R15. Look at ME2 in the lower right hand corner to see the vfd schedules. The wire routing is clear in the drawings. Correct there is no vfd control schematic as it’s not required. The $15000 allowance will take care of all controls programming and final terminations.

Q16. I can find no reference to a base bid chiller. Is there one?
The only trade name mentioned is for an acceptable product purge control? Does this mean that Trane is base bid?
Controller to act as a leak detector if required, and must have the following specifications:
g) The manufacturers of low pressure machines must provide a purge system. Acceptable purges are the Trane EarthWise Purge.
h) The purge efficiency must meet ASHRAE Standard 147-2002.
i) The purge shall be capable of operating when the chiller is idle in accordance with ASHRAE Standard 147-2002.
j) Vent purge in accordance withCSA B52

R16 Refer to the chiller schedule on ME3 for the standard of acceptance of the replacement chiller.