



AMENDMENT 1

Project Title: Water Treatment Services
Central Experimental Farm (CEF), Ottawa (Ontario)

Solicitation No: 14-2020

May 22, 2014

Amendment 1 is raised to do the following:

- Revise Appendix B "Statement of Work"; and
- Answer questions from bidders (Q&A).

1. At Appendix B "Statement of Work", article 3 "Scope of Work", sub-article 3.2 "Chemicals", paragraph f):

Delete: The contractor must be prepared to provide and install upgrades from liquid or powder chemicals to solid technology, where appropriate, at no extra cost.

Replace with: All CEF installations are equipped with liquid chemical systems. The Contractor must not change any of the liquid systems without written approval of the Technical Authority.

Q&A

Q1. Can you provide the annual water consumption for the cooling towers and steam boilers for each system?

A1. Water consumption is not available as the equipment is not fitted with water meters.

Q2. Can you provide the annual water consumption for the chilled water, hot water boilers and glycol loops?

A2. No but all those systems are closed loops and consumption is minimal.

Q3. Can you provide the size in volume (gallons) of the chilled, hot water and glycol loops?

A3. The largest systems are for buildings 20 and 22.

For building 20, there is approximately 5000 liters of chilled water, 3000 liters of hot water and 5500 liters of glycol. All systems are closed loop systems, therefore no or minimal make-up water required.

For building 22, there is approximately 3000 liters of chilled water, 1000 liters of hot water and 3000 liters of glycol. All systems are closed loop systems, therefore no or minimal make-up water required.

All other systems are small, 100 liters or less capacity.

Q4. What type of glycol is being used?

A4. Poly-pure mixture 50/50 approximate.

Q5. What is the freezing point of the glycol used?

A5. The freezing point of the used glycol is -30 to -40 Celsius degrees.

Q6. Can you provide the percentage of condensate returning in the steam boilers?

A6. The percentage of condensate return in the steam boilers is approximately 85%.



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Q7. Any steam in contact with food or food products?

A7. No.

Q8. Is steam used for humidity control, and if so, which locations?

A8. Steam is not used for humidity control.

Q9. Are amines allowed in the steam?

A9. Amines are present in various steam systems.

Q10. What chemical feed and blowdown equipment is installed on the steam boiler systems?

A10. The brand name of the chemical equipment used is Walchem, all installed within the last 5 years.

Q11. Are there any water softeners installed with the boilers?

A11. Yes, mostly for steam systems for buildings 20, 21, 22 and 50.

Q12. What is the temperature of the boilers feed water?

A12. 85% of condensate is returning to the boilers at a temperature of 160 to 180 degrees Fahrenheit.

Q13. In reference to Appendix B, article 3.2 f), will there be any systems requiring to be changed from liquid or powder to the solid technology?

A13. No. Only liquid chemicals will be used. See above changes to the Statement of work.

ALL OTHER TERMS AND CONDITIONS REMAIN THE SAME