

October 6, 2023

ADDENDUM NO.: ONE (1)
TO ALL OFFERORS:

REFERENCE: Request for Proposal No: **RFP# MPM-1195**
Dated: **September 25, 2023**
RFP Closing On: **October 25, 2023 at 2:00 p.m. (Eastern)**

Please note the clarifications and/or changes made on this proposal program:

1. Do you use Sodium Nitrate or Molybdenum in the non-Glycol closed loops?
 - a. Sodium Nitrate.
2. Please provide Pricing Schedule information about the boilers to be serviced.
 - a. Five (5) High Pressure Steam Boilers. Total steam generation capacity 270,000 lbs. per hour.
3. Are the cooling tower controllers linked into a network system?
 - a. No.
4. Are all the systems on city water or are some on well water?
 - a. City water.
5. Does JMU own all equipment (chemical feed systems and containment tanks)?
 - a. Yes.
6. Who is doing the cooling tower cleaning? Annually?
 - a. Performed in-house by Trades Technicians.
7. What are the operating conditions of the cooling towers?
 - a. Incoming Water Quality: total hardness = 60 ppm, total alkalinity = 60/pH = 7.2, Conductivity = 125, Cycles = 4, Tonnage: 7520 & 8800 tons, MU Flow: varies 0-200 GPM, Blowdown flow and discharge = No data available; blowdown rate is set to maintain 650 conductivity, Manufacturer Serial Number = No available, Operating time = 24/7/365
8. Is there any Legionella testing done on the cooling towers?
 - a. Yes, annually.
9. What are the operating conditions for the Boilers-
 - a. Incoming Water Quality = Total Hardness = 60 PPM, Total Alkalinity = 60, pH = 7.2, Conductivity = 125, Cycles = N/A, HP = Total – 7,917 HP, Steam production (lbs/hr) = 270,000 Blowdown rate = 3% , Pretreatment and blowdown discharge = Water Softeners.
10. Closed loop sizes?
 - a. No data available.

11. Estimated water loss from leaks?
 - a. Less than 5%.
12. What is the percentage of glycol required?
 - a. 30 – 35%
13. What are your water, sewer, and boiler fuel rates (for ROI calculations)
 - a. Water and sewer together @ \$8.75 per k/gal.
 - b. Boiler fuel: NG - \$8.90 DTH; Diesel = \$5.50 per gallon.
14. Can you provide annual water data for the cooling and boiler systems or provide an average % load to base my calculations on?
 - a. ECPP consumes approximately 25 to 30 million gallons annually on cooling tower make-up, boiler water make-up consumes approximately 4 to 5 million gallons per year, this is an average of approximately 8 to 10% make-up rate.
15. What is the construction material for the cooling towers/condensers?
 - a. Varies campus wide (includes but is not limited to: stainless steel, galvanized steel, and PVC fill).
16. How many pounds of nitrate do you purchase annually?
 - a. Unknown, purchased as required.
17. How many pounds of molybdenum do you purchase annually?
 - a. Unknown, purchased as required.
18. Could you provide a current equipment list for the chemical control?
 - a. JMU owns all equipment for chemical control. List is too extensive to include here.
19. Are there any access restrictions to any Cooling Tower and/or Boiler systems?
 - a. Access is limited (per the RFP). All site visits require a JMU rep to be present.
20. Would a hands-free/drum-free deliver program be able to be utilized?
 - a. This would not be feasible in most locations.
21. Would JMU be interested in pursuing an alternative to heavy metal treatment?
 - a. If the treatment is aluminum-safe.
22. Can you please provide me with your discharge permits restrictions?
 - a. N/A.



23. Do you want to see price per pound for our products or just the total cost the way that you have it broken down in the RFP?

- a. As much additional information as you can provide is always helpful. You are not required to submit this information but it would be valuable.

Signify receipt of this addendum by initialing "*Addendum # 1*" on the signature page of your proposal.

Sincerely,

Michael Morrison

Michael Morrison
Buyer Senior
Phone: (540-568-6181)