Procurement and Contracting Services

Request for Proposals for a Comprehensive, Service-Oriented Water Treatment Program for the Central Utility Plants

ADDENDUM #1

Please mark all proposal submission Envelopes with the following information

Sealed RFP # L222005
Due on July 20, 2020 no later than 2:00 PM, MST
The Due Date for RFP L222005 is hereby amended from July 6, 2020 at 02:00 PM, MST to July 20, 2020 at 02:00 PM MST.

The following information is hereby added to the proposal document and a requirement for vendors to be considered for the solicitation;

Acid is to be supplied for the cooling tower systems at the University. For the bid, provide the following information.

- The desired pH range for the cooling tower systems
- The amount of acid needed to be fed to achieve the pH range specified per 1,000 gallons of system Make-Up

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<thead>
<tr>
<th>SULFURIC ACID</th>
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<tbody>
<tr>
<td>OPTIONS</td>
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<tr>
<td>Generic Type</td>
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<tr>
<td>Vendor Name/Number</td>
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<tr>
<td>Desired PPM Residual</td>
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<tr>
<td>% Active Ingredients</td>
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<td>Form (Wet or Dry)</td>
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<tr>
<td>Container Size/Weight</td>
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<tr>
<td>Unit Cost</td>
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<td>$$$/1,000 Gallons of Make-Up</td>
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The following questions were received before the technical question/inquiry due date of June 26, 2020 at 12:00PM MST:

1. One member of the U of A staff mentioned requiring stainless steel tanks for all the chemicals other than the sulfuric acid and inhibitor tank. Is that the case or will plastic tanks and secondary containments be acceptable?

   Plastic is acceptable unless there are compatibility issues with the product to be stored.

   Note: Sulfuric acid tanks and inhibitor tanks are owned by the University at all 3 plants and these tanks will stay.

2. Just to confirm the only equipment staying in place is the sulfuric acid tanks and the coupon racks? (Everything else is being replaced).

   The chemical injection pumps, sulfuric acid tanks, and inhibitor tanks will stay.
3. Will volumes of each condenser tower water be provided so that we can size the chemical pumps properly? To ensure we feed the Non-Oxidizer @ 120 ppm within 1 hour.

Cooling tower volumes: CRB ~200K gal, CHRP~150K gal, and AHSC~145k gal.

4. The RFP does not call out for an Acid program. Can you please verify we are to quote out annual acid usage and provide that through our annual assumptions? If so how would you like the pricing number as there is not a pricing table for this portion.

Yes, acid should be quoted as part of the bid.

5. What is the drive water source for the CLO2 generator? Is it RO water or City water or Chilled Water?

The CLO2 generator is tied into campus potable water. Campus potable water is primarily self-produced well water with Tucson City Water as a back-up source when our wells are not keeping up with campus demand.

6. What is the pressure of the water line where the chlorine dioxide is being injected?

The pressure at the point of injection averages 70-80 PSIG.

7. We did not have a chance to see the location at CRB where the bleach was injected into the chilled water. Can you please provide more detail about how the bleach is added including control strategy, amount used and dosage rate?

University does not inject bleach into the chilled water loop, we inject CLO2. Currently CLO2 is only injected at the AHSC plant.

8. Can you please confirm that at the CHRP, we would be responsible for providing a replacement tank for the 3DT231 product (540-gallon base tank)? Please confirm that this is owned by the incumbent and that this would be required to provide as part of transition. It was made clear that all Portafeed tanks were owned by Nalco and would need to be replaced but slightly unclear about this specific bulk tank.

Please see the answer to question 1.

9. Does the university require that the controllers be tied to the HMI as well or will cell modem communication suffice? If tied to HMI, is MODBUS or BACNET preferred?
Awarded vendor’s equipment will not be connected to our SCADA; cell modems are fine.

10. For the controller at AHSC for the boilers, how many separate boiler blowdowns, does this controller handle?

The boiler controller (3D Trasar) at AHSC only controls the HRSG. The other boilers have a continuous blowdown which is controlled with a needle valve.

11. We did not see a controller for the boilers at CHRP. Please advise if there was a 3D Trasar controller present there and if so, how many boilers did it control for blowdown?

CHRP boilers do not have a 3D Trasar controller.

12. The proposal requests that we provide cooling tower inhibitor products that contain phosphonate for scale control, yet the cooling towers are all on acid control meaning that phosphate (corrosion control) would be needed. Please help to clarify what is required.

The answer to that question is system pH dependent. You need to specify the pH needed for your program and then quote the specified chemistry. Keep in mind that you need to bid the base bid as specified. You can then recommend any program that differs from the based bid program as an alternate.

13. There is no mention of providing sulfuric acid in the contract yet during the walkthrough, we were told that the acid was part of the contract and that Univar would provide but that the payments and delivery would all be ran through the winning vendor. Please clarify. Please confirm who owns the acid tanks for each site (are they leased from Univar or are they owned by the University?).

Acid is to be supplied to the University by the winning vendor as part of this bid. The tank question was answered in question 1.

14. Weekly SRB testing of the open loops, 5.3.3, is simply a waste of money. Our firm provides water treatment programs for more than 500 cooling towers and does no SRB testing. If an oxidizing biocide program is correctly applied, there will be no SRB related issues.

Thank you for your comment. This requirement will not be eliminated.

15. Is ATP testing acceptable for the quarterly closed loop biological, 5.3.3, testing?

Awarded vendor can use ATP only as an adjunct to dip slides. ATP does not replace dip slide testing. Dip slides are to be taken at the bid-specified frequency.
16. What is the “TES” loop? Is it the closed chilled water system or??

   The TES loop referenced in the bid document is the campus closed chilled water loop.

17. How many separate open cooling towers are to be treated?

   Please refer to the bid document for this answer as it is clearly specified.

18. How many chilled loops are to be treated?

   One (1) chilled water loop.

19. How many boiler systems are to be treated?

   The CHRP plant and AHSC plant each have a high-pressure steam boiler system which are connected to a common steam supply and common condensate return. Each of those “boiler systems” have several boilers attached to them as observed on the pre-bid walk thorough. Forgive us, we did not know what you meant by “boiler systems”.

20. How many hot loops are to be treated?

   We do not have any hot water loops in our plants, unless you consider our boiler feedwater systems a hot water loop.

21. There are no usable field test methods for silica, we recommend that the required testing for silica, 5.6.5.1.5 etc., be deleted.

   Thank you for your comment. This requirement will not be eliminated.

22. Use of any oxidizing biocide such as chlorine dioxide or sodium hypochlorite, 5.10.2 and 5.10.3, in a closed loop system will cause corrosion rates to exceed those specified at 5.5.1.1.

   Thank you for your comment. This requirement will not be eliminated.

23. CLO2 Generator - Who operates the system U of A or vendor?

   The CLO2 generator is operated by the current water treatment provider with oversite from plant personnel.

24. Is the chlorine dioxide generator required to have remote communications? If so what does U of A want monitored and should it be remotely controlled as well?
We are not monitoring the CLO2 generator outside of the plant. The generator must be locally controlled. It is also interlocked with our chiller plant SCADA system to ensure proper chilled water flow while feeding CLO2.

25. CLO2 Generator, is a remote connection for monitoring required?

No this is not a requirement.

26. CLO2 Generator, Safety requirements for Pricing.

This question is unclear. Since we do not know your equipment, you will have to determine what is required for safe operations. Safety is of the utmost importance, so price accordingly.

27. CLO2 Generator, Current system is 2 part? Does U of A want pricing for an optional for 3 part system, or liquid ClO2?

The bid document states: “The vendor will need to provide a chlorine dioxide generator of equal size (50 pounds per day) or greater to the existing unit for the TES loop.” Please quote what was asked for. If you’d also like to propose and alternative method of feeding CLO2, it will be considered.

28. CLO2 Generator, Would U of A like a service plan for the generator as an added option?

Include any required maintenance in your price. The awarded vendor will be fully responsible for the operation and maintenance of the CLO2 generator.

29. Treatment Program: Does the university want a 12 month lease on the equipment or month to month payment?

We have no preference in this matter.

30. Will the chemical pumps, totes and tanks be leaving or staying? How many of each will they be keeping if any? How many will be removed?

Please refer to section 5.0 of the proposal document for this information.

31. Will the University allow us to have a test cabinet for our use onsite?

If the awarded vendor needs an onsite cabinet we will find space for their reasonably sized cabinet.

32. Are test kits and reagents for University use to be included in the contract or will they be purchased on an as needed basis?
The University will not purchase addition test kits and reagents. These are to be supplied by the winning vendor as noted in the Bid Specification.

33. Does university handle the chemical products that require fork lift on site? (ClO2 precursors and or any drums).

Each plant has a forklift and qualified operators available to assist.

34. Is the University under contract with Univar for 93% sulfuric acid?

Acid is sourced and handled by the current water treatment provider. The University does not order or handle chemistry. Acid is the responsibility of the water treatment provider and must be included in the bid.

35. Chemical Delivery - Are there access restrictions for the various properties and how does CSSI and PSS gain that access?

Deliveries are expected during hours we are staffed. The CHRP and AHSC plants are staffed 24/7/365. The CRB plant is staffed M-F, 7:00AM-3:30PM.

36. Chemical Delivery - Are there security cards, codes, or just contacts to let us in to make deliveries?

Please see answer to question 35 of this addendum.

37. Chemical Delivery - Are there time of day restrictions?

Please see answer to question 35 of this addendum.

38. Chemical Delivery: - Who will sign for materials delivered?

Plant operators are able to sign for delivered materials.

39. Chemical Delivery: - Who is responsible for ordering chemicals? If it is University personnel, what happens if too much product is ordered and it won't fit in the tanks?

The awarded vendor is fully responsible to have the appropriate chemistry on site.

40. Chemical Delivery: - Who are their contact people in the unlikely event of an incident?

Appropriate contact information will be shared with the awarded vendor.
41. If the load is dramatically decreased, and chemical consumption is far less than estimated by makeup water projections, are weekly service visits expected to be absorbed into chemical costs or quoted separately?

This is a hypothetical question and therefore cannot be answered at this time. If this situation arises a discussion will be had with the awarded vendor.

42. Is make up water quality analysis available?

We have a blend of self-produced well water and Tucson City water. The water quality varies from day to day. Arrangements can be made for firms to take a water sample if it is necessary to their proposal.

43. Current contract amount?

This is not the appropriate format to get this question answered.

44. Does the University pay for the tanks by monthly lease or annual payment?

The University does not pay for tanks monthly or annually. The tanks not owned by the University; they are the property of the current water treatment vendor.

45. The RFP list various tank materials. Which materials are you accepting?

Stainless steel and plastic are acceptable unless there are compatibility issues with the product to be stored.

End of addendum, all else remains the same.