



**Amendment  
# 4**

**Solicitation Number:** USC-RFP-3643-DG  
**Date Issued:** August 26 2020  
**Procurement Officer:** Dennis Gallman  
**Phone:** (803) 777-4115  
**E-Mail Address:** gallmand@mailbox.sc.edu

**DESCRIPTION: Provide Water Treatment Services for University of South Carolina Upstate Campus**

**USING GOVERNMENTAL UNIT: UNIVERSITY OF SOUTH CAROLINA**

*The Term "Offer" Means Your "Bid" or "Proposal". Your offer must be submitted in a sealed package. Solicitation Number & Opening Date must appear on package exterior. See "Submitting Your Paper Offer or Modification" provision.*

**SUBMIT YOUR SEALED OFFER TO EITHER OF THE FOLLOWING ADDRESSES:**

**MAILING ADDRESS:**  
 University of South Carolina – Purchasing Department  
 1600 Hampton Street, Suite 606  
 Columbia SC 29208

**PHYSICAL ADDRESS:**  
 University of South Carolina – Purchasing Department  
 1600 Hampton Street, Suite 606  
 Columbia SC 29208

**SUBMIT OFFER BY (Opening Date/Time): September 1, 2020 at 11:00 AM (EDT)** (See "Deadline For Submission Of Offer" provision)

**QUESTIONS MUST BE RECEIVED BY: August 12, 2020 at 11:00 AM (EDT)** (See "Questions From Offerors" provision)

**NUMBER OF COPIES TO BE SUBMITTED:** 1 (one) Original Hard Copy each for Technical & Price Proposals;  
 3 (three) Digital versions of technical proposal on USB drive;  
 1 (one) Digital version of Price Proposal on USB Drive; and  
 1 (one) each Digital version(s) of redacted Technical & Price proposals on USB Drive

**CONFERENCE TYPE: Not Applicable**  
**DATE & TIME:**

(As appropriate, see "Conferences - Pre-Bid/Proposal" & "Site Visit" provisions)

**LOCATION: Not Applicable**

**AWARD &  
AMENDMENTS**

Award will be posted on **9/23/2020**. The award, this solicitation, any amendments, and any related notices will be posted at the following web address: <http://D/www.procurement.sc.gov>

You must submit a signed copy of this form with Your Offer. By signing, You agree to be bound by the terms of the Solicitation. You agree to hold Your Offer open for a minimum of sixty (60) calendar days after the Opening Date. (See "Signing Your Offer" provision.)

**NAME OF OFFEROR**

(full legal name of business submitting the offer)

Any award issued will be issued to, and the contract will be formed with, the entity identified as the Offeror. The entity named as the Offeror must be a single and distinct legal entity. Do not use the name of a branch office or a division of a larger entity if the branch or division is not a separate legal entity, i.e., a separate corporation, partnership, sole proprietorship, etc.

**AUTHORIZED SIGNATURE**

(Person must be authorized to submit binding offer to contract on behalf of Offeror.)

**DATE SIGNED**

**TITLE**

(business title of person signing above)

**STATE VENDOR NO.**

(Register to Obtain S.C. Vendor No. at [www.procurement.sc.gov](http://www.procurement.sc.gov))

**PRINTED NAME**

(printed name of person signing above)

**STATE OF INCORPORATION**

(If you are a corporation, identify the state of incorporation.)

**OFFEROR'S TYPE OF ENTITY: (Check one)**

(See "Signing Your Offer" provision.)

Sole Proprietorship                       Partnership                       Other \_\_\_\_\_

Corporate entity (not tax-exempt)     Corporation (tax-exempt)     Government entity (federal, state, or local)

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**(Return Page Two with Your Offer)**

HOME OFFICE ADDRESS (Address for Offeror's home office / principal place of business)	NOTICE ADDRESS (Address to which all procurement and contract related notices should be sent.) (See "Notice" clause)
	Area Code - Number - Extension <span style="float:right">Facsimile</span>
	E-mail Address

PAYMENT ADDRESS (Address to which payments will be sent.) (See "Payment" clause)	ORDER ADDRESS (Address to which purchase orders will be sent) (See "Purchase Orders and "Contract Documents" clauses)
<input type="checkbox"/> Payment Address same as Home Office Address <input type="checkbox"/> Payment Address same as Notice Address <b>(check only one)</b>	<input type="checkbox"/> Order Address same as Home Office Address <input type="checkbox"/> Order Address same as Notice Address <b>(check only one)</b>

**ACKNOWLEDGMENT OF AMENDMENTS**

Offerors acknowledges receipt of amendments by indicating amendment number and its date of issue. (See "Amendments to Solicitation" Provision)

Amendment No.	Amendment Issue Date	Amendment No.	Amendment Issue Date	Amendment No.	Amendment Issue Date	Amendment No.	Amendment Issue Date

DISCOUNT FOR PROMPT PAYMENT (See "Discount for Prompt Payment" clause)	10 Calendar Days (%)	20 Calendar Days (%)	30 Calendar Days (%)	_____ Calendar Days (%)
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PREFERENCES - A NOTICE TO VENDORS (SEP. 2009): On June 16, 2009, the South Carolina General Assembly rewrote the law governing preferences available to in-state vendors, vendors using in-state subcontractors, and vendors selling in-state or US end products. This law appears in Section 11-35-1524 of the South Carolina Code of Laws. A summary of the new preferences is available at [www.procurement.sc.gov/preferences](http://www.procurement.sc.gov/preferences). **ALL THE PREFERENCES MUST BE CLAIMED AND ARE APPLIED BY LINE ITEM, REGARDLESS OF WHETHER AWARD IS MADE BY ITEM OR LOT. VENDORS ARE CAUTIONED TO CAREFULLY REVIEW THE STATUTE BEFORE CLAIMING ANY PREFERENCES. THE REQUIREMENTS TO QUALIFY HAVE CHANGED. IF YOU REQUEST A PREFERENCE, YOU ARE CERTIFYING THAT YOUR OFFER QUALIFIES FOR THE PREFERENCE YOU'VE CLAIMED. IMPROPERLY REQUESTING A PREFERENCE CAN HAVE SERIOUS CONSEQUENCES.** [11-35-1524(E)(4)&(6)]

PREFERENCES - ADDRESS AND PHONE OF IN-STATE OFFICE: Please provide the address and phone number for your in-state office in the space provided below. An in-state office is necessary to claim either the Resident Vendor Preference (11-35-1524(C)(1)(i)&(ii)) or the Resident Contractor Preference (11-35-1524(C)(1)(iii)). Accordingly, you must provide this information to qualify for the preference. An in-state office is not required, but can be beneficial, if you are claiming the Resident Subcontractor Preference (11-35-1524(D)).

In-State Office Address same as Home Office Address  
 In-State Office Address same as Notice Address **(check only one)**

## QUESTIONS FROM OFFERORS - AMENDMENT (JUN 2017)

The solicitation is amended as provided herein. Information or changes resulting from questions will be shown in a question-and-answer format. All questions received have been reprinted below. The “state’s response” should be read without reference to the questions. The questions are included solely to provide a cross-reference to the potential offeror that submitted the question. Questions do not form a part of the contract; the “state’s response” does. Any restatement of part or all of an existing provision of the solicitation in an answer does not modify the original provision except as follows: underlined text is added to the original provision. Stricken text is deleted. [02-2A097-1]

## THE FOLLOWING QUESTIONS WERE RECEIVED FROM VENDOR B:

Question 1. Are 3 or 5 references requested

Answer: Five

Question 2. 2.8 Microbiological Testing. Please define "Regular Basis." is this interval the same for Total Aerobic Bacteria and fungi (Dipslides defined as quarterly), is Sulfite Reducing Bacteria on the same interval?

Answer: **As needed.**

Question 3. 2.9 Domestic Water Systems. Is this domestic treatment requiring a License or permit? If so what issuing agency or agencies are acceptable? What domestic treatment is necessary?

Answer: **Not required. This is done by water supplier – Metropolitan Water District**

Question 4. 3.0 GENERAL REQUIREMENTS AND CONDITIONS Except for Health Education Center. How much water loss should be planned

Answer: **Open systems depends on weather.**

**Open systems should be tight. We notify water treatment vendor when we have leaks/ repairs that may require more chemicals to be added. Test twice per year .**

Question 5. 5.2 Open Cooling Systems Product Types: 1. **No heavy metals** are acceptable as a tracer in cooling towers. These specifications are seemingly contradictory. Please clarify?

Answer: **No heavy metals used.**

Question 6. 4.1.1. Open Cooling Systems. 1. Control general corrosion within all open systems to a measurable amount of less than 2.0 mil per year, for carbon and stainless steels. Admiralty and other copper alloys shall be controlled to less than 0.2 mils per year. Corrosion rates shall be measured on site by standalone electronic equipment. No coupon sampling shall be permitted. How is corrosion monitoring currently being done? During tour I noticed one (1) cooling tower with corrosion coupon rack, however did not notice any probes or equipment in place for electronic monitoring as required.

Answer: **Use corrositivity meter.**

Question 7. 4.1.2. Closed Heating, Chilled, and Cooling Systems. 1. Control general corrosion within all closed systems to a measurable amount of less than 0.5 mils per year for carbon steel, stainless steel, admiralty, and other copper alloys.

How are corrosion studies being conducted currently as, during tour I did not notice any corrosion monitoring equipment in place (coupons, probes, ect.)

Answer: **Use corrosivity meter.**

Question 8. 4.8. Results Assurance It is expected that application of bidder's program in strict accordance with instructions will result in clean heat transfer surfaces and low corrosion rates. These criteria will be monitored by the contractor and USC Upstate through the use of: 1. Corrosion monitoring with rates not to exceed levels in section 4.1 on mild steel and copper. 2. Chiller efficiency studies utilizing bidders on site computer capability. 3. Laboratory analysis. Failure of contractor to meet efficiency and corrosion goals will result in immediate contract termination. Ability to monitor these goals is essential. Could the university provide an example of corrosion monitoring and chiller efficiency reporting as expected? We would like to make sure we completely understand this requirement.

Answer: **We use Johnson Controls METASYS building management system to constantly monitor chillers as well as our PM system work request (Mechanical Rooms, water treatment & cooling towers) to check for increased amp load, chillers surging, cooling tower strainers, cooling tower fans, basins, etc. Chiller vendors brushes condenser tubes at least annually and notifies us of excess fouling/ approach issues.**

Question 9. 4.9. Laboratory Service. The contractor shall provide the services of its research laboratories which will be required when necessary to perform a wide array of analytical work to facilitate the monitoring, control and troubleshooting of USC Upstate's systems. All laboratory services shall be provided by the contractor's own research facilities, unless specifically authorized by USC Upstate. The laboratory service turnaround time shall not exceed 21 calendar days from sample pick up time to report delivery. Specifically, what laboratory analysis is required? Since there is a mandate of in-house capability we want to ensure we are in compliance.

Answer: **Water analysis on open, closed and make up water.**

Question 10. 4.10.1 Open Cooling Systems (when operating) 8. Check corrosion rates Quarterly 10. Special studies (computer efficiencies, Annually corrotor monitoring, biological optimization, approach temperatures) Subsections 8 and 10 are a bit confusing as corrosion rates are suggested to be collected through electronic means or "Corrotor monitoring." Is this a quarterly or annual expectation?

Answer: **Use corrosivity meter.**

Question. 11 5.1 Open Cooling System Product Specifications. All chemicals shall be administered into the system by existing chemical injection feed system at USC Upstate. 2. **All chemicals must be in liquid form**, unless otherwise approved by USC Upstate. During prebid tour we noticed that all chemical injection feed systems only had 2 pumps, therefore oxidizing biocide was in solid form and floating in most but not all towers. Is this an acceptable chemical injection practice, therefore we also can bid accordingly?

Answer: **Yes.**

Question 12. 5.2 Open Cooling Systems Product Types: 6. Continuous feeding of **liquid bromine** technology oxidizing microbiocides shall be used in conjunction with slug feeding of non-oxidizing biocides to maintain microbiological activity below 500,000 organisms per milliliter of treated cooling water. The non-oxidizing biocides cannot contain carbonates, heavy metals, be cationic, and be non-foaming. Provide dip slides to monitor effectiveness of biocide treatment in (open systems) at each site on a monthly basis. Current practice is a floating solid bromine tablet. Is this acceptable?

Answer: **Yes.**

Question 13. 3.2.3 Implementation Schedule. This schedule will include contractor's training of USC Upstate Personnel, **installation of equipment** and delivery of chemical, reagents and test equipment, as well as operation manuals identified in this agreement. Does the University own and maintain the current feed, bleed and control equipment?

Answer: **Yes.**