



Upper Occoquan Service Authority

Leader in Water Reclamation and Reuse

14631 COMPTON ROAD, CENTREVILLE, VIRGINIA 20121-2506
(703) 830-2200

TO ALL IFB RECIPIENTS:

For UOSA IFB 25-08 Furnish and Deliver Granular Media to Remove H2S

SUBJECT: Addendum # 1

The above numbered solicitation is amended as set forth below. The hour and date specified for receipt of offers:

is not extended

is extended

OFFERORS MUST ACKNOWLEDGE receipt of this Addendum by one of the following methods:

- a. By acknowledgement of this Addendum on Submission Form submitted with the proposal;
- b. By referencing its receipt in your Transmittal Letter

If by virtue of this Addendum you desire to change a proposal already submitted, such change may be made by letter, provided it includes reference to the solicitation and this Addendum and is received prior to the due hour and date specified.

DESCRIPTION OF ADDENDUM:

1. To provide answers for all questions received before the deadline for questions. Q&A provided as Attachment A to this addendum.

All other Terms, Conditions, Tables, Charts and Specifications, and Drawings not otherwise changed remain as originally stated or as shown.

ISSUED BY:

Upper Occoquan Service Authority


Dustin Baker, Purchasing Manager 02/06/2025
Date

UOSA IFB 25-08, Addendum #1, Attachment A - Questions and Answers

1. Q: The operating conditions list 0.00% oxygen in the gas. For this application our media would require 0.2 to 0.3% oxygen – we rarely see applications with an actual 0.00 percent oxygen so I just wanted to verify that is accurate.

A: Under normal operations we have 0.0% oxygen present in the biogas stream (on rare occasions we may see 0.1%), but when running micro-aeration we can have anywhere between 0.1-0.4% oxygen.

2. Q: Will a bid bond or performance bond be required?

A: We do not expect to require bid or performance bonds for this contract.

3. Q: Could you please provide the previous bid tab & currently using Product specification?

A: Previous bid tab provided as Attachment B to this Addendum. Current product specifications provided as Attachment C to this Addendum.

4. Q: Will you accept Granular Activated Carbon for this Bid?

A: We anticipate that Activated Carbon would not meet the test for equivalence to the established standard of quality due to increased changeout frequency. Our system does not have the ability to backwash the media and we feel like this could limit the effective life and increase overall costs.

5. Q: The bid document mentions three vessels. Are these vessels arranged in parallel or in series (essentially a lead/lag orientation)? Will one vessel be on line at a time with the other two in reserve once there is breakthrough? This will determine the approximate % H₂S loading our carbon will be able to take on. It could be anywhere from 65% - 85% or higher.

A: Vessels are arranged in series with 2 vessels on at a time and 1 on standby.

6. Q: Is the system set up as up flow (bottom-to-top) or downflow (top-to-bottom)?

A: The system can be configured as either up flow or downflow. Currently it is in a downflow configuration.

7. Q: The gas conditions list 0% Oxygen in the inlet gas stream. Is this an accurate number? From our experience, waste water streams typically contain some % of Oxygen. Our DARCO BG1 media requires 0.1% Oxygen for every 1,000ppm H₂S. Given the H₂S level of 1,500ppm in the inlet stream, you would require a minimum of 0.15% Oxygen. Do you have the ability and would be willing to add/inject Oxygen into the stream prior to the treatment vessels should the levels in fact be 0%?

A: See questions 1.



Bar Screen Replacement
UOSA 20-13 Bid Tabulation

3/5/2020
2:00 PM

Bid Open Date:

Attendance: Will Gastkins

Price/lb media
Line 1

\$1.20

\$1.34

\$1.41

Price/lb H2S
Removed
Line 3

\$5.9113

\$6.70

\$4.70

Firm

SKHUMBERGER

Unison Solutions

SolFa Trap

Opened by: Dustin Baker

Witnessed by: Will Gastkins



Taking Sulfur Out of the Equation

Material Specification Sheet

SulfaTrap™-R7Q Sulfur Sorbent

Intended Use: Sulfur removal from gaseous flow streams, including natural gas, biogas, and carbon dioxide.

Operating Conditions: Ambient temperature up to 90°C.

General Specifications:

Size: 1/8" pellets

Appearance: red to brown

Bulk Density: 44-49 lbs/ft³

LOD (120°C): <1.0 wt%

Packaging: TBD

Each production lot of SulfaTrap™-R7Q will be delivered with a Certificate of Analysis including the following information:

Bulk Density
LOD (120°C)

Sulfur removal

Standard sorbent screening test: 180 hr⁻¹ Minimum Gas Hourly Space Velocity (GHSV), particles of mesh size 40 max 70 min, reactor internal diameter ~2.54 cm, 5000 ppmv H₂S, T=45-50 °C, P=4-5psig, 2.2% water, methane
Sample drawn from 1L composite sample
Minimum 20% sulfur loading by weight at breakthrough

PROPRIETARY

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