

PERSONAL SERVICES CONTRACT SUMMARY ("PSC FORM 1")

Department: PUBLIC UTILITIES COMMISSIONDept. Code: PUCType of Request: Initial Modification of an existing PSC (PSC # 47941 - 18/19)Type of Approval: Expedited Regular Annual Continuing (Omit Posting)Type of Service: Engineering Services for Sunol Valley Water Treatment Plant Long Term Taste & Odor (PRO.0120)Funding Source: SFPUC Water Enterprise CIPPSC Original Approved Amount: \$19,000,000 PSC Original Approved Duration: 10/01/19 - 10/01/26 (7 years 2 days)PSC Mod#1 Amount: \$19,000,000 PSC Mod#1 Duration: 02/22/24-12/31/29 (3 years 13 weeks)PSC Cumulative Amount Proposed: \$38,000,000 PSC Cumulative Duration Proposed: 10 years 13 weeks**1. Description of Work****A. Scope of Work/Services to be Contracted Out:**

SFPUC civil, structural, electrical; process, mechanical, and other specialized engineering services in the design and support during construction of a new raw water ozonation system, flocculant aid polymer system, and various needed upgrades at SFPUC's Sunol Valley Water Treatment Plant (SVWTP) to address long-term taste and odor issues and plant reliability. Major plant upgrades include new cryogenic oxygen tanks, liquid oxygen vaporizers, ozone generators, ozone injectors, an ozone contactor, an ozone building, an ozone destruct system, electrical power facilities, backup power facilities, polymer mixing skids, polymer aging tanks, transfer pumps, polymer building, associated piping/appurtenances, and associated automatic controls (I&C), modifications to various existing facilities and systems, and power generation consisting of solar panels atop the Treated Water Reservoir and nearby SVWTP facilities to offset the increased power load.

The scope also includes an upgrade to the Calaveras high voltage substation to accommodate increasing power needs brought on by the new ozonation system and various facility upgrades within the Sunol Valley and services of Technical Advisory Panels to review and provide expert opinion and recommendations during design and construction.

B. Explain why this service is necessary and the consequence of denial:

SFPUC is working on the Water System Improvement Program (WSIP), Sewer System Improvement Program (SSIP) and Capital Improvement Program (CIP). The engineering workload has substantially increased and consultants are needed to meet peak workload demands for planning, engineering design and construction support services on projects. This project requires special expertise in water treatment plant design and in particular, the raw water ozonation system, which is not available from City employees. The project is also on a tight schedule for completion due to the Hetch Hetchy shutdowns and the need to have a long-term taste and odor system in place. If these services are not available, the project will not be completed to the highest quality and meet the project schedule. There is substantially more work than can be completed with in-house engineers within the planned schedule. Also, some of the services require expertise which is not available from City employees.

C. Has this service been provided in the past? If so, how? If the service was provided under a previous PSC, attach copy of the most recently approved PSC.

Services have been provided in the past through earlier PSC request. See 47941 - 18/19

D. Will the contract(s) be renewed?

No.

E. If this is a request for a new PSC in excess of five years, or if your request is to extend (modify) an existing PSC by another five years, please explain why:

A project of this magnitude and complexity requires a seven-year contract. The planning phase will be 1.5 years and includes a Conceptual Engineering Report. The design phase will be 2 years and includes 35, 65, 95 and 100% design milestones with presentations at each milestone, preparation of Civic Design Review documents, engineer's estimates and construction schedules and documents needed for the California Environmental Quality Act (CEQA)

process. The bid and award phase will be .5 years and includes addendum preparation, review of Question of Bid Documents (QBD's), review of bids and participation in preconstruction meetings and activities. The construction phase will be 2.5 years and includes construction support services, review of Requests for Information (RFI), Submittals and Requests for Substitutions, attend weekly construction meetings, attend site visits, prepare designs related to change orders or RFI's, and preparation of an Operations and Maintenance (O&M) plan for the facility. The closeout phase will be .5 years and will include review of closeout documents, preparation of as-built Computer-Aided Design (CAD) drawings and closeout reports. In the event there are design or construction delays and/or follow-up sub projects, consultant services will be needed for design and construction support work, pushing the duration past the 6-year mark.

2. Reason(s) for the Request

A. Display all that apply

- Short-term or capital projects requiring diverse skills, expertise and/or knowledge.
- Services required on an as-needed, intermittent, or periodic basis (e.g., peaks in workload).

Explain the qualifying circumstances:

As stated in Section 1B, this project requires special expertise in water treatment plant design and the ozonation process, which is not available from City employees. The project is also on a tight schedule for completion due to the Hetch Hetchy shutdowns and need to have taste and odor control systems installed prior to the shutdowns.

B. Reason for the request for modification:

PRO.0120 is being modified to secure additional budget and schedule duration for engineering support services for the project construction phase. Since the contract began, there has been project scope and schedule changes that increased the budget and duration. A modification is needed to accommodate the changes.

3. Description of Required Skills/Expertise

- A. Specify required skills and/or expertise: Experienced professional engineers in the structural, electrical, power, process, mechanical and civil disciplines during the design and construction phases of the new raw water ozonation system, substation upgrades and SVWTP improvements are needed. Areas of specialized engineering experience are needed for the ozonation and high voltage systems. In addition, process modifications downstream of the raw water ozonation process requires expertise in water treatment design. Design support services during the construction phase are needed to review RFI's, RFS' and submittals, address design changes and prepare operations and maintenance plans and as-built CAD drawings.
- B. Which, if any, civil service class(es) normally perform(s) this work? 5203, Asst Engr; 5207, Assoc Engineer; 5241, Engineer;
- C. Will contractor provide facilities and/or equipment not currently possessed by the City? If so, explain: No.

4. If applicable, what efforts has the department made to obtain these services through available resources within the City?

Not Applicable

5. Why Civil Service Employees Cannot Perform the Services to be Contracted Out

- A. Explain why civil service classes are not applicable.
The project requires special expertise in Ozonation and water treatment design, which is not available from City employees.
- B. If there is no civil service class that could perform the work, would it be practical and/or feasible to adopt a new civil service class to perform this work? Explain: No. The specialized engineering expertise required for the project is not normally needed for projects and the level of resources needed is not long term. Adopting a new class for these specialized areas is not feasible.

6. Additional Information

- A. Will the contractor directly supervise City and County employee? If so, please include an explanation.
No.

- B. Will the contractor train City and County employees and/or is there a transfer of knowledge component that will be included in the contact? If so, please explain what that will entail; if not, explain why not.
In-house engineering staff will gain valuable knowledge and experience on this project. In addition to the knowledge transfer that will be provided as a result of working closely with the award firm, the consultant will also provide brown bag lunch presentations (one-hour each) throughout the term of the project. The target audience will be Water Enterprise, EMB and PMB staff. Planned topics will include in depth presentations on treatment technologies, facility operation and start-up, BIM, and/or lessons learned. These topics will benefit both the team directly assigned to the project, as well as additional staff across multiple departments.
- C. Are there legal mandates requiring the use of contractual services?
No.
- D. Are there federal or state grant requirements regarding the use of contractual services? If so, please explain and include an excerpt or copy of any such applicable requirement.
No.
- E. Has a board or commission determined that contracting is the most effective way to provide this service? If so, please explain and include a copy of the board or commission action.
No.
- F. Will the proposed work be completed by a contractor that has a current PSC contract with your department? If so, please explain.
No.

7. Union Notification: On 02/26/24, the Department notified the following employee organizations of this PSC/RFP request:
Professional & Tech Engrs, Local 21; Prof & Tech Eng, Local 21; Architect & Engineers, Local 21;

I CERTIFY ON BEHALF OF THE DEPARTMENT THAT THE INFORMATION CONTAINED IN AND ATTACHED TO THIS FORM IS COMPLETE AND ACCURATE:

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FOR DEPARTMENT OF HUMAN RESOURCES USE

PSC# 47941 - 18/19

DHR Analysis/Recommendation:

04/01/2024

Commission Approval Required

Approved by Civil Service Commission

04/01/2024 DHR Approved for 04/01/2024