



Topic: **Reservoir Committee Agenda Item 2-1.7**

2020 August 21

Subject: **Task Order for Professional Services – Engineering -
Conveyance (CH2M Hill Engineers, Inc.)**

Requested Action:

Consider approval of a recommendation to the Sites Project Authority and approve CH2M Hill Engineers, Inc.'s (CH2M) (Engineering-Conveyance) Amendment 2 Task Order No. 3.0 scope of work with a not to exceed contract authority of \$3,356,849 for the period of September 1, 2020 through December 31, 2021.

Detailed Description/Background:

On April 17, 2020 the Reservoir Committee approved a work plan for the Amendment 2 period of performance September 1, 2020 through December 31, 2021 which included Engineering - Conveyance activities. CH2M has satisfactorily performed these services for the Authority since 2019. The below summary of the scope of services contained in the proposed CH2M's Task Order No. 3 was negotiated and is recommended by the Authority Agent's to achieve the required deliverables and milestones for Amendment 2.

The scope contains the following tasks:

- **Preliminary Hydraulic Model:** Prepare hydraulic models that will confirm feasibility design of conveyance features and inform the feasibility study. (\$233,445)
- **Feasibility Report (Draft):** Engineering support of project conveyance features in preparation of the Draft Feasibility Report. (\$89,293)
- **Feasibility Report (Final):** Engineering support of project conveyance features in preparation of the Final Feasibility Report required for the California Water Commission determination of project feasibility. (\$37,907)
- **Constructability Analysis:** Prepare construction analysis that demonstrates project conveyance features can be constructed using existing technology, available materials, workforce, and equipment. (\$100,407)
- **Develop Class 4 Cost Estimate including Mitigation Measures:** Develop a Class 4 project cost estimate for conveyance features based on guidance defined by the Association for the Advancement of Cost Engineering. (\$148,071)
- **DSOD Engagement:** Engineering support of project conveyance features to engage with the Department of Water Resources Division of Safety of Dams. (\$82,803)
- **Engineering Support for Environmental & Permitting:** Progress feasibility design to a 10% design level in support of environmental analysis and permitting requirements. Project features triggering the CVFPB

Encroachment Permit and potentially Section 408 will be advanced to a 30% design level in support of the permitting documents. Project features requiring advancement in feasibility design to a 10% design level includes: TRR and Funks Reservoir improvements, electrical facilities, and conveyance improvements related to the TRR and Funks pipelines, pumping generating plants, Dunnigan pipeline, and improvements to TCCA and GCID facilities. (\$2,117,841)

- **Convert drawings to GIS geodatabase File Format:** Convert feasibility design drawing files to GIS format for environmental analysis (\$34,359)
- **Risk Workshop Support:** Develop risk input and identify risk mitigation strategy for project conveyance features. (\$58,693)
- **Program Design / Construction / Permit Implementation:** Support work plan development for future program phases including design, construction and permit implementation. (\$116,505)
- **Geotechnical Permit Planning & Investigation Plan:** Support development of geotechnical exploration programs for feasibility design confirmation and preliminary engineering. (\$83,095)
- **Project Management:** Monitoring and report CH2M task order budgets, reviewing labor and expense effort, coordinating staffing requirements, and implementing the quality control plan. (\$211,331)
- **Expenses:** Miscellaneous expenses. (\$43,100)

Prior Action:

February 21, 2020: Approved an amendment to CH2M Hill Engineers, Inc.'s (CH2M) (Operations Simulation Modeling) contract and task order scope of services, budget and period of performance.

January 17, 2020: Approved Amendment 1B Work Plan for the period of January 1, 2020 through August 31, 2020 as part of a no cost time extension to the then current Participation Agreement. The Amendment included summary-level descriptions of the deliverables with estimated Reservoir Committee budgets. Each deliverable budget was further defined in the document by the level of effort required to complete each deliverable by consultant for use in developing amended consultant task orders intended to be submitted for approval to the Reservoir Committee and Authority Board in February 2020.

December 19, 2019: Approved a recommendation to the Sites Project Authority to approve an amendment to CH2M Hill Engineers, Inc.'s (CH2M) (Operations Simulation Modeling) contract period of performance by extending their task order from December 31, 2019 through June 30, 2020 with no change in their cost

March 22, 2019: Approved a recommendation to the Sites Project Authority to approve both the consulting agreement with CH2M Hill Engineers, Inc. (CH2M) for Service Area D – Operations Simulation Modeling and the Phase 2 (2019) task order and budget for services April 1, 2019 through December 31, 2019.

November 16, 2018: Approved a recommendation to the Sites Project Authority to accept the evaluation panel's selection of CH2M for Service Area D – Operations Simulation Modeling.

August 16, 2018: Approved a recommendation to the Sites Project Authority to release of the Project Development Support Services RFQ-18-04.

Fiscal Impact/Funding Source:

Sufficient funds are Included in the revised Amendment 2 Work Plan. Consultant activity will be monitored closely to ensure quality, timely deliverables and to ensure a positive project cash balance is always maintained.

Staff Contact:

Joe Trapasso

Attachments:

None.