

APPROVED
By the Board of Directors of
The Metropolitan Water District
of Southern California
at its meeting held



MWD
METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

APR 11 1995

Loren E. Duff
EXECUTIVE SECRETARY

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March 17, 1995

To: Board of Directors (Engineering and Operations Committee--Action)
(Organization and Personnel Committee--Action)

From: General Manager

Subject: Authorization to Amend Agreement No. 3925 with Raytheon Infrastructure Services Incorporated for Design Consulting Services for the Domenigoni Valley Reservoir Project.

RECOMMENDATION:

It is recommended that the General Manager be authorized to amend Agreement No. 3925 with Raytheon Infrastructure Services Incorporated to increase the maximum amount payable from \$37,600,000 to \$46,300,000, including expenses, to provide additional engineering design services for the Domenigoni Valley Reservoir Project.

Approval of Request:

John R. Wodraska
General Manager

Submitted by:

Gary M. Snyder
Gary M. Snyder
Chief Engineer

Concur:

John R. Wodraska
John R. Wodraska
General Manager

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BRIEF DESCRIPTION:

In November of 1992, an agreement was entered into with Raytheon Infrastructure Services Incorporated (Raytheon) to provide preliminary and final engineering design services for the Domenigoni Valley Reservoir Project (DVRP). Feature Design Memoranda were prepared for each DVRP feature based on approved design criteria and review by Metropolitan staff. The DVRP Independent Board of Consultants (BOC) and DVRP Technical Review Team have provided engineering review and comments and additional level of value engineering effort during the design process. The maximum amount payable under the terms of the initial agreement was \$37.6 million.

Various changes following the preliminary design and review process, such as elimination of power generation and addition of pressure-reducing structures, have increased the design and review effort. The value engineering process, while being cost-effective in reducing construction costs, has caused an increased design cost. Value engineering changes such as the reduction in below-grade excavation of the West Dam and the utilization of a modified rock quarry configuration near the East Dam have substantially reduced the estimated construction costs.

<p><u>CONTRACT TYPE</u></p> <p><input type="checkbox"/> NEW</p> <p><input checked="" type="checkbox"/> AMENDED</p> <p><u>CONTRACT FORM</u></p> <p><input type="checkbox"/> LEASE</p> <p><input checked="" type="checkbox"/> PROFESSIONAL SERVICES</p>	<p><u>FUNDING</u></p> <p><input checked="" type="checkbox"/> CAPITAL</p> <p><input type="checkbox"/> O & M</p> <p><u>BUDGET STATUS</u></p> <p><input type="checkbox"/> FY 94/95 AMT \$169,231,200</p> <p><input type="checkbox"/> OUT-YEAR AMT \$123,022,344</p> <p><input type="checkbox"/> NON-BUDGET AMT _____</p>	<p><u>TYPE OF COMPETITION</u></p> <p><input type="checkbox"/> RFQ</p> <p><input checked="" type="checkbox"/> Amendment to Agreement No. 3925</p> <p><input type="checkbox"/> INFORMAL RFP</p> <p><input type="checkbox"/> OTHER COMPETITION _____</p> <p><input type="checkbox"/> SOLE SOURCE</p>
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PURPOSE/BACKGROUND:

The increased scope of work includes optimization and refinement of design details. Design details such as the utilization of a cost-effective rock quarry configuration for the East Dam, the straightening of the alignment of the East Dam north leg, refinement of the internal composition of all three dams to achieve maximum utilization of available material, and reduction of processed filter materials are examples of design optimizations that have been implemented to minimize construction costs. These measures will reduce the estimated cost of the dams by over \$135 million dollars.

ACTIONS and MILESTONE:

The submittal to the State of California's Division of Safety of Dams will be made in May 1995, and approval is expected in August 1995. Dam configurations have now been finalized, and the specifications for dams and hydraulic structures are being issued in accordance with the project schedule.

MBE/WBE:

Although no MBE or WBE goals were required in 1992 when the contract was initiated, the contractual goals were later established at 9 percent MBE and 3 percent WBE. The design consultant has accomplished a cumulative rate of 11 percent MBE and 2 percent WBE.

CEQA COMPLIANCE / ENVIRONMENTAL DOCUMENTATION:

All California Environmental Quality Act (CEQA) requirements have been satisfied for the proposed action. In October 1991, your Board certified the Final Environmental Impact Report for DVRP. This action satisfied the provisions of CEQA, and no further environmental documentation or reviews are necessary for your Board to take action on this recommendation.