



**MWD**

METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

7-7

June 25, 1993

To: Board of Directors (Engineering and Operations Committee--Action)  
Board of Directors (Finance and Insurance Committee--Action)

From: General Manager

Subject: Revision No. 1 to Appropriation No. 607 to Increase Funding from \$675,000 to \$1,280,000 to Finance All Costs in Advance of Award of a Construction Contract for Seismic Modifications to the Pumping Plant Buildings, and a Geotechnical Investigation and Preliminary Design for Seismic Modifications to the Discharge Pipelines on the Colorado River Aqueduct

### Report

In October 1990, your Board authorized Appropriation No. 607 for \$675,000 to finance all estimated costs in advance of award of a construction contract for seismic modifications to the Colorado River Aqueduct (CRA) pumping plant buildings, and for a geotechnical investigation and preliminary design for seismic modifications to the discharge pipelines at the plants.

Final design and preparation of specifications are nearing completion for the seismic modifications to the pumping plant buildings. The initial design called for construction of buttresses on spread footings adjacent to the pump buildings at Hinds, Eagle Mountain, and Iron Mountain. However, during final design a geotechnical investigation conducted by a consultant revealed that the existing fill adjacent to the pump buildings would not support spread footings. This situation resulted in changing the design to include a more elaborate system for anchoring the buttresses to the buildings.

The majority of the construction on the exterior of the buildings will be accomplished by competitively bid contract. However, before modifications to the exterior of the buildings can start, electrical and control utilities that would interfere with the buttresses at Hinds, Eagle Mountain, and Iron Mountain pumping plants must be relocated by District forces. This will require District design staff to prepare additional excavation and shoring drawings. Also, to prevent undue interruption of pumping operations, or risk possible shutdown of the aqueduct due to damage to equipment by

unfamiliar contractor personnel, District forces will perform all exterior excavations and interior modifications to the pumping plant buildings.

It is proposed that Appropriation No. 607 be increased from \$675,000 to a total of \$1,280,000 for completion of final design and specifications, and for relocation of electrical and control utilities at Hinds, Eagle Mountain, and Iron Mountain pumping plants. Additional funding will be required for the construction of exterior modifications to the buildings by contract and for the exterior excavation and interior modifications by District forces. A breakdown of the estimated cost is shown on the attached Fiscal Statement.

The total estimated cost of all seismic modifications work for the CRA pumping plant buildings and the discharge pipelines is \$9,819,000.

The proposed project is categorically exempt from the provisions of the California Environmental Quality Act, as it consists of repair of existing facilities to meet current standards of public health and safety, involving no expansion of use beyond that previously existing.

#### Board Committee Assignments

This letter is referred for action to:

The Engineering and Operations Committee for consideration because of its jurisdiction over the initiation, scheduling, contracting, and performance of construction programs pursuant to Administrative Code Section 2431(b); and

The Finance and Insurance Committee for consideration because of its responsibility to study, advise, and make recommendations with regard to authorization of appropriations pursuant to Administrative Code Section 2441(d).

#### Recommendations

##### **ENGINEERING AND OPERATIONS COMMITTEE FOR ACTION.**

It is recommended that your Board authorize the General Manager to have all work performed in advance of award of a construction contract for seismic modifications to the pumping plant buildings and a geotechnical investigation and preliminary design for seismic modifications of the discharge pipelines on the Colorado River Aqueduct.

**FINANCE AND INSURANCE COMMITTEE FOR ACTION.**

It is recommended that the Board authorize an increase of \$605,000 in Appropriation No. 607 to a total of \$1,280,000 from the 1992 Revenue Bond Construction Fund, to finance all estimated costs in advance of award of a construction contract for the seismic modifications to the CRA pumping plant buildings, and a geotechnical investigation and preliminary design for seismic modifications of the discharge pipelines on the Colorado River Aqueduct.

  
for General Manager

DWC/ks/atr  
(bdap:apr-607/6113)  
Attachments

FISCAL STATEMENT

(1993/94 Capital Program No. 5-6070-11)

A breakdown of the estimated costs for the initial funding and Revision No. 1 are as follows:

	<u>Initial Funding</u>	<u>Revision 1</u>
Labor:		
Engineering Design	\$ 200,000	\$ 345,000
District Forces		
Construction	<u>0</u>	<u>115,000</u>
Total Labor	\$ 200,000	\$ 460,000
Material	\$ 0	\$ 120,000
Equipment use	10,000	20,000
Incidental Expenses	20,000	5,000
Administrative Overhead	97,000	250,000
Professional Technical	300,000	300,000
Contingency	<u>48,000</u>	<u>125,000</u>
Total	<u>\$ 675,000</u>	<u>\$ 1,280,000</u>

## Estimated Funds Required:

Initial	\$ 675,000
Revision No. 1	605,000
Additional	<u>8,539,000</u>
Total	<u>\$ 9,819,000</u>

## Projected Expenditure of Funds:

Through Fiscal Year 1992/93	\$ 674,000
Fiscal Year 1993/94	2,080,000
Fiscal Year 1994/95	4,546,000
Fiscal Year 1995/96	<u>2,519,000</u>
Total	<u>\$ 9,819,000</u>

FISCAL STATEMENT (cont.)

Class one--Projects directly related to the delivery of water which, if delayed, could adversely impact the reliability of services.

Project Benefit: Would improve the structural integrity of the facilities, thereby increasing the reliability of water deliveries, minimizing the extent of damage to the facilities, and reducing the risk of danger to personnel.