



MWD

METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

Revised 8-3

June 7, 1993

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

From: General Manager

Subject: Revision No. 3 to Appropriation No. 593 to Increase Funding From \$1,500,000 to \$2,425,000 for Vibration Mitigation at the Olinda Pressure Control Structure.

Report

In January 1992, your Board authorized Revision No. 2 to Appropriation No. 593 to a total of \$1,500,000 to finance all estimated costs for design and model testing, procurement of equipment, replacement of a 96-inch-diameter section of steel pipe with a manifold and attached acoustic filter, and testing of the system for optimization and filter tuning.

Due to unusually heavy rains this past winter, unexpected levels of groundwater were encountered in the excavation. This required the installation of 4 wells and 24-hour-a-day pumping to lower the water table. It was also necessary to retain a consulting engineer to design and prepare calculations for the specialized shoring system and to utilize a contractor to do "tie back" installation and certification. Additional Metropolitan field labor was required for the pumping operation and construction activities. Also additional engineering costs were incurred due to the complex nature of the acoustic filter design and control system. Due to the uncertainties in the filter's expected operations, substantial model testing of air scouring conditions and baffle configurations were necessary.

An increase of \$925,000 to Appropriation No. 593, to a total of \$2,425,000, is now required to complete construction for the vibration mitigation at Olinda Pressure Control Structure. A breakdown of the total estimated costs is attached.

The proposed action is exempt from the provisions of the California Environmental Quality Act in that it consists of

minor modifications of an existing facility involving no expansion of use beyond that previously existing.

Board Committee Assignments

This letter is referred for action to:

The Engineering and Operations Committee because of its jurisdiction over the contracting of construction programs and the ordering of equipment or materials to be used, pursuant to Administration Code Section 2431(b); and

The Finance and Insurance Committee because it has jurisdiction over appropriations, pursuant to Administrative Code Section 2441(d).

Recommendations

ENGINEERING AND OPERATIONS COMMITTEE FOR ACTION.

It is recommended that the General Manager be authorized to have additional work performed for vibration mitigation at the Olinda Pressure Control Structure.

FINANCE AND INSURANCE COMMITTEE FOR ACTION.

It is recommended that your Board authorize an increase of \$925,000 to Appropriation No. 593 from the 1991 Revenue Bond Construction Fund, to a total of \$2,425,000, for vibration mitigation at the Olinda Pressure Control Structure.


for General Manager

PWF/CHT:atr
(bd:apr593-3/5103)
Attachment

ATTACHMENT A

Fiscal Statement
(1992-93 Capital Program No. 5-5930-23)

The total estimated cost breakdowns for Revision No. 2 and Revision No. 3 are as follows:

	<u>Revision No. 2</u>	<u>Revision No. 3</u>
Labor:		
Engineering	\$ 262,000	\$ 460,000
Controls Group	6,000	7,000
Field Construction	124,000	573,000
Water Quality	6,000	0
Environment	6,000	0
Inspection	9,000	10,000
Right of Way	5,000	0
Survey	6,000	9,000
Corrosion Lab	<u>6,000</u>	<u>1,000</u>
Total Labor	<u>\$ 430,000</u>	<u>\$ 1,060,000</u>
Materials	550,000	476,000
Incidental Expenses	3,000	54,000
Professional and Technical Services		
Dr. Frederick B. Safford	\$ 0	\$ 25,000
Flow Science, Inc.	10,000	20,000
Law Crandall (for shoring calcs)	0	29,000
Northrop University	<u>\$ 90,000</u>	<u>\$ 89,000</u>
Total Professional & Technical.	<u>\$ 100,000</u>	<u>\$ 163,000</u>
Contracts	0	17,000
Equipment Use	35,000	37,000
Administrative Overhead	238,000	542,000
Contingencies	<u>\$ 144,000</u>	<u>\$ 76,000</u>
TOTAL	<u>\$ 1,500,000</u>	<u>\$ 2,425,000</u>

ATTACHMENT A (Continued)

Estimated Funds Required:

Initial Funds	\$ 250,000
Revision No. 1	150,000
Revision No. 2	1,100,000
Revision No. 3	<u>925,000</u>
TOTAL	<u>\$ 2,425,000</u>

Source of Funds: 1991 Revenue Bond Construction Fund

Class One: Projects directly related to delivery of water which, if delayed, will adversely impact reliability of service.

Projected Project Expenditure of Funds:

Through Fiscal Year 1992-93	\$ 2,300,000
Fiscal Year 1993-94	<u>125,000</u>
TOTAL	<u>\$ 2,425,000</u>

1992-93 Capital Program:

Estimated Program Cost	\$ 1,500,000
Program Estimate for Fiscal Year 1992-93	\$ 596,200

Project Benefit:

The vibrations emanating from the Olinda Pressure Control Structure have resulted in legal actions. Not proceeding with this corrective work could result in additional legal actions causing additional monetary settlements with homeowners in the immediate area.