



**MWD**

METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

JUN 14 1994

*[Signature]* 7-4  
EXECUTIVE SECRETARY  
May 25, 1994

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

From: General Manager

Subject: Appropriation No. 686 for \$450,000 to Finance All Estimated Costs  
for Seismic Modifications to Eight Chemical Storage Tanks at the  
Jensen Filtration Plant

Report

The Jensen Filtration Plant was constructed in 1972 and is currently undergoing a major expansion, which includes an enlargement of the chemical storage and feed system. As part of this expansion, a seismic evaluation of 10 existing above ground storage tanks at the chemical tank farm revealed the need to provide restraints to prevent the tanks from being displaced off their foundations during an earthquake. The tanks are supported by a concrete ringwall foundation; however, they are not anchored to the foundation and a large earthquake could displace the tanks causing leakage of chemicals. The recent Northridge earthquake displaced one tank three inches from its original location, demonstrating the need to provide restraints to the tanks. Two of the 10 tanks at the chemical tank farm are no longer needed and will be abandoned.

It is proposed to design and install steel plate restraints attached to the existing concrete ringwall foundation for the eight tanks in order to minimize lateral movement of the tanks in the event of a major earthquake. Design, purchase of materials, and construction will be accomplished by District personnel. The total estimated cost for this work is \$450,000. A breakdown of the estimated cost is shown on the attached Financial Statement.

The proposed project is exempt from the provisions of the California Environmental Quality Act because it involves alterations of an existing facility, with no expansion of use beyond that previously existing.

Board Committee Assignments

This letter was referred for action to:

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

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

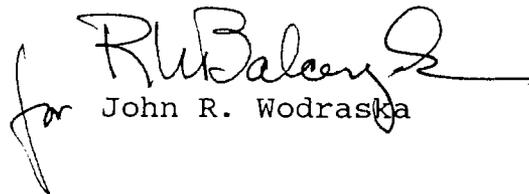
Recommendations

**ENGINEERING AND OPERATIONS COMMITTEE FOR ACTION.**

It is recommended that your Board authorize the General Manager to have all work performed, other than work performed under contracts involving an expenditure of \$250,000 or more, for seismic modifications to eight chemical storage tanks at the Jensen Filtration Plant.

**FINANCE AND INSURANCE COMMITTEE FOR ACTION.**

It is recommended that your Board authorize Appropriation No. 686 in the amount of \$450,000 from the Pay-As-You-Go Fund to finance all estimated costs for seismic modifications to eight chemical storage tanks at the Jensen Filtration Plant.

  
for John R. Wodraska

BDS:jj  
(bdapr:apr-686.ds-05094)  
Attachment

## Attachment A

**Fiscal Statement**

A breakdown of the costs for the seismic modifications to eight chemical storage tanks is as follows:

	<u>Cost Estimate</u>
<b>Labor:</b>	
Engineering Design	\$ 52,000
Operations Field Forces Construction	<u>145,000</u>
<b>TOTAL LABOR</b>	<b>\$ <u>197,000</u></b>
Materials and Supplies	71,500
Incidental Expenses	3,000
Operating Equipment	11,000
Administrative Overhead	108,700
Contingencies	<u>58,800</u>
<b>TOTAL</b>	<b>\$ <u>450,000</u></b>

**Source of Funds:**

Pay-as-You-go Fund

**Capital Program for Fiscal Year 1994-95:**

This project was not included in the 1994-95 budget because the scope of work and estimated costs were not clearly defined as the budget was prepared.

**Projected Expenditures of Funds:**

Through Fiscal Year 1993/94	\$ 5,000
Fiscal Year 1994/95	280,000
Fiscal Year 1995/96	<u>165,000</u>
<b>TOTAL PROJECT COST</b>	<b>\$ <u>450,000</u></b>

**Class One:**

Projects required for health and safety or governmental requirements.

**Project Benefit:**

The District will be able to minimize displacement of the tanks and potential chemical leakage due to damage in the event of a large earthquake.