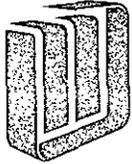


APR 14 1992



MWD

METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA EXECUTIVE SECRETARY

March 24, 1992

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

From: General Manager

Subject: Appropriation No. 633 for \$15,000,000 to Replace Type "M" Meters
Throughout Metropolitan's Distribution System and Delegation of
Power to the General Manager to Award Contracts

Report

Metropolitan uses venturi flowmeters with Type "M" meters which have a mercury manometer, to measure and record the amount of water delivered at about 400 service connections and mainline meters throughout the distribution system. Most of these meters are used in calculating the cost of water delivered to member agencies.

Because of recent technology, Type "M" meters are now obsolete and require replacement consistent with present standards. Accordingly, an evaluation program was initiated in May 1990 to determine the optimum replacement meter systems. This program was accelerated in July 1991 to reduce environmental risks associated with possible mercury spills.

Selection of replacement meter systems which will operate with the extant venturis and meet or exceed the accuracies described in the Administrative Code has been completed. The selection was based on an extensive analysis of available types of equipment, a bench test phase to validate manufacturers' data claims, and an ongoing field reliability program at four locations to compare flow-measuring results of on-line systems with the existing Type "M" meters. As presented previously to members of the Engineering and Operations Committee, the replacement meter systems will consist of two differential pressure transmitters mounted in tandem, a flow computer, and a recorder.

It is proposed to begin installation of the new meter systems in June 1992. Existing cabinets will be removed, decontaminated if necessary, and reinstalled. Concurrently, the meter system will be mounted on a metal support that will fit inside the cabinet. Meter calibration will be accomplished in the shop to minimize downtime for all member agencies.

Additionally, it is anticipated that specific sites may require some mercury decontamination. This work will be done by either District forces or by an outside contractor.

Under this accelerated program, all Type "M" meters will be replaced by late 1993. The total estimated cost of the project is \$15,000,000. A breakdown of the estimated costs is attached. Requests for bids have been issued for the major components of the selected meter systems. It is anticipated that bid results will be received prior to the Board committee meetings on April 13 and 14, 1992.

The Administrative Code currently authorizes the General Manager to award contracts under \$250,000. Contracts in excess of \$250,000 are awarded by the Board after competitive bidding. Because of the significance of this equipment to Metropolitan's operations and the need to commence timely replacement, it is proposed that the Board delegate to the General Manager the power to award contracts funded under this Appropriation. We will report back to the Engineering and Operations Committee periodically on the progress of this program.

The project is exempt from the provisions of the California Environmental Quality Act because it involves maintenance of existing facilities with no expansion of use beyond that previously existing.

Board Committee Assignments

This letter is referred for action to:

The Engineering and Operation Committee 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 because of its jurisdiction over appropriations pursuant to Administrative Code Section 2441(d).

Recommendations

ENGINEERING AND OPERATIONS COMMITTEE FOR ACTION.

It is recommended that your Board, notwithstanding the provisions of Administrative Code Section 8113, authorize the General Manager to have all work performed, and delegate to the

General Manager the authority to award contracts to replace Type "M" meters throughout Metropolitan's distribution system.

FINANCE AND INSURANCE COMMITTEE FOR ACTION.

It is recommended that your Board authorize the appropriation of \$15,000,000 from the 1991 Revenue Bond Construction Fund to finance all estimated costs of replacing Type "M" meters throughout Metropolitan's distribution system. This appropriation will be designated No. 633.


for Carl Boronkay

JIM/atr
(brdapr\apr633.jim)
Attachment

Attachment

Fiscal Statement

The total estimated cost breakdown is shown below:

	<u>Cost Estimate</u>
Labor	
Final design and preparation of specifications	\$ 660,000
Post Design	70,000
Field Installation	1,560,000
Materials and Supplies	4,030,000
Incidental Expenses	20,000
Operating Equipment	30,000
Administrative Overhead	1,263,000
Contracts for Mercury Decontamination	5,000,000
Contingencies	<u>2,367,000</u>
Total	\$ 15,000,000

Source of Funds: 1991 Revenue Bond Construction
Fund

Class: One - Projects required for health and safety or
governmental requirements.

Projected Expenditures of Funds:

Thru 1991/92	\$ 2,000,000
92/93	11,000,000
93/94	<u>2,000,000</u>
Total	\$ 15,000,000

Project Benefit: Will provide continued reliable measurement
of water deliveries to member agencies and
reduce the environmental risks associated
with possible mercury spills.