

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

SEP 12 1995

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MWD

METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

Suzanne Erdoff
EXECUTIVE SECRETARY

August 29, 1995

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

From: General Manager

Subject: Authorize No. 1 to Appropriation No. 676 to Expend Budgeted Funds to Increase Funding From \$1,150,000 to \$ 3,836,500 to Finance All Estimated Costs for the Construction of Modification to Upgrade the Chlorine System at the Diemer Filtration Plant, and to Award a Construction Contract

RECOMMENDATION:

It is recommended that your Board authorize an increase of \$ 2,686,000 In Appropriation No. 676, from the Pay-As-You-Go Fund, for the construction of modifications to upgrade the chlorine system at the Robert B. Diemer Filtration Plant.

It is recommended that a contract in the Amount of \$ 2,238,670 be awarded to Pascal & Ludwig Engineers, Inc., for construction of modifications for the upgrade of the chlorine system at the Robert B. Diemer Filtration Plant, and that, conditioned upon execution of the contract, all other bids be rejected.

John R. Wodraska
General Manager

Submitted by:

for Gary M. Snyder

Gary M. Snyder
Chief Engineer

Concur:

for John R. Wodraska

John R. Wodraska
General Manager

Attachments
DWC:aj

BRIEF DESCRIPTION:

In March 1994, your Board approved Appropriation No. 676 in the amount of \$1,150,000 to finance design and all estimated costs in advance of award of a construction contract for modifications to upgrade the chlorine system at the Diemer filtration plant.

Five bids were received and opened under Specifications No. 1337, as amended, for the construction of Diemer plant modifications. These bids are shown in the Abstract of Bids on Attachment B. The low bid of Pascal & Ludwig Engineers, Inc., in the amount of \$2,238,670 complies with the requirements of the specifications, is \$135,040 below the next lowest bid, and is \$623,600 above the Engineer's Estimate. The lower Engineer's Estimate is due to the mechanical equipment and piping required for the pipe gallery, and the difficulty of placing and installation being greater than initially estimated by Metropolitan.

A \$ 2,686,000 increase in Appropriation No. 676 is required to finance all remaining costs for the construction of modifications to upgrade the chlorine system at the Diemer filtration plant. A breakdown of all estimated costs is contained in the Financial Statement on Attachment A.

<p><u>CONTRACT TYPE</u></p> <p><input checked="" type="checkbox"/> NEW <input type="checkbox"/> AMENDED</p> <p><u>CONTRACT FORM</u></p> <p><input type="checkbox"/> LEASE <input type="checkbox"/> PROFESSIONAL SERVICES <input checked="" type="checkbox"/> CONSTRUCTION</p>	<p><u>FUNDING</u></p> <p><input checked="" type="checkbox"/> CAPITAL <input type="checkbox"/> O & M</p> <p><u>BUDGET STATUS</u></p> <p><input checked="" type="checkbox"/> FY 95/96 AMT \$2,600,000 <input checked="" type="checkbox"/> OUT-YEAR AMT \$ 868,200 <input type="checkbox"/> NON-BUDGET AMT _____</p>	<p><u>TYPE OF COMPETITION</u></p> <p><input checked="" type="checkbox"/> SPEC NO. 1337 <input checked="" type="checkbox"/> COMPETITIVE BIDDING <input type="checkbox"/> NEGOTIATED CONTRACT</p>
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PURPOSE/BACKGROUND:

The Robert B. Diemer Filtration Plant has a hydraulic capacity of 710 million gallons per day (mgd). However, the plant is only capable of delivering 520 mgd due to limitations on the chemical feed systems, washwater reclamation plant and domestic water pumps. Metropolitan began a program to upgrade the Diemer plant in 1987, completing the enlargement of the washwater reclamation plant in late 1992. Work to upgrade the chemical feed and chlorine systems, and replace the domestic water pumps commenced in mid-1993.

Expansion of the chlorine system is a key component required to achieve the 710 mgd capacity. Updating the chlorine system will also enhance personnel safety by diminishing the potentiality of an accidental chlorine release.

ACTIONS & MILESTONE

Final Design and specifications were completed in May 1995, advertised on May 30, and bids opened on August 23, 1995. Notice to proceed for construction is scheduled to be issued in mid-October 1995, and construction is expected to be completed in late 1996.

MBE/WBE:

The specifications, as amended, established certified Minority-Owned Business Enterprise (MBE) and Women-Owned Business Enterprise (WBE) participation goals of 17 percent MBE and 6 percent WBE. The specifications also provided that a bidder who does not meet the indicated participation goals must submit documentation of good faith effort to meet such goals. Pascal & Ludwig Engineers, Inc., is the low bidder and has committed to achieve a certified 18 percent MBE and 8 percent WBE participation. Their documentation was reviewed by the Office of Diversity, Legal Department, and Engineering Division and was deemed meeting the criteria set forth in the specifications and is accepted. The MBE and WBE subcontractors are listed in Attachment C.

CEQA COMPLIANCE / ENVIRONMENTAL DOCUMENTATION:

The proposed project is categorically exempt from the provisions of the California Environmental Quality Act because it consists of modifications of existing facilities to meet current standards of public health and safety, involving no expansion of use beyond that previously existing. (State CEQA Guidelines Section 15301).

NUMBER OF BIDDERS

- NUMBER OF CONTRACTORS
REQUESTING PLANS 50
- BIDS SUBMITTED 5

EVALUATION CRITERIA

LOW BID THAT MEETS THE REQUIREMENTS OF THE SPECIFICATIONS.
BIDDERS QUALIFICATIONS AND MBE/WBE PARTICIPATION ARE ALSO
CONSIDERED.

CONTRACTUAL DETAILS

- ANTICIPATED DURATION 220 DAYS
- HOURLY RATES _____
- PREVAILING WAGE RATES WILL APPLY

Attachment A

FINANCIAL STATEMENT

(Capital Program No. 5-6760-31)

The total estimated cost breakdown for initial funding and Authorization No. 1 to Appropriation No. 676 is as follows:

	<u>Initial Funding</u>	<u>Authorization No. 1</u>
Construction Specifications No. 1337 Low Bid Received Aug. 23 1995	\$ 0	\$ 2,238,670
Labor:		
Engineering Design and Specifications	\$ 300,000	\$ 410,000
Contract Administration	0	28,000
Field/Fabrication Inspection	0	125,000
Survey, Soils & Concrete and Corrosion	5,000	19,000
Operations Control Systems	10,000	43,000
District Forces Testing & Start-up	0	72,500
Water Quality/Environmental	<u>5,000</u>	<u>3,000</u>
Total Labor	\$ 320,000	\$ 700,500
Materials & Supplies	\$ 500,000	\$ 0
Incidental Expenses	5,000	5,000
Equipment Use/Rental	5,000	5,000
Administrative Overhead	176,500	386,500
Contingency	<u>143,500</u>	<u>500,330</u>
Total	\$ <u>1,150,000</u>	\$ <u>3,836,000</u>

Projected Expenditure of Funds:

Through Fiscal Year 1993-94	\$ 220,000
Fiscal Year 1994-95	630,000
Fiscal Year 1995-96	2,890,000
Fiscal Year 1996-97	96,000
Total	\$ <u>3,836,000</u>

Source of Funds: Pay-As-You-Go Fund

Capital Program Estimate For FY 1995-96	\$ <u>4,092,000</u>
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Class: One-- Project is directly related to the delivery of water.

Project Benefit: Will increase the hydraulic capacity of the Diemer filtration plant to 710 mgd, allowing Metropolitan to better service member agencies, and provide enhanced chlorine safety at the facility.

The Metropolitan Water District of Southern California

**ABSTRACT OF BIDS RECEIVED AUGUST 23, 1995 AT 2:00 P.M.
 Specifications No. 1337, as Amended
 Robert B. Diemer Filtration Plant
 Chlorine System Expansion/Relocation**

This project consists of a new chlorine building, piping for liquid chlorine lines, chlorine gas vacuum lines, chlorine solution lines, general piping, sitework, mechanical equipment, electrical work, and appurtenant work. The work is to be completed within 220 working days after contractor receives the Notice to Proceed.

Engineer's Estimate: \$ 1,615,000

Bidder & Location	Item 1 Mobilization	Item 2 Construction	Total items 1 & 2
Pasca & Ludwig Engineers Ontario, CA	\$ 20,000	\$ 2,218,670	\$ 2,238,670
Kiewit Pacific Co. Santa Fe Springs, CA	\$ 20,000	\$ 2,353,710	\$ 2,373,710
SW Industrial, Inc. Encino, CA	\$ 20,000	\$ 2,437,000	\$ 2,457,000
Shirley Bros., Inc. Pasadena, CA	\$ 20,000	\$ 2,477,000	\$ 2,497,000
Marelich Mechanical Co., Inc. Torrance, CA	\$ 20,000	\$ 2,528,781	\$ 2,548,781

MBE/WBE PARTICIPATION

Name of Bidder: Pascal & Ludwig Engineers, Inc.

Name, Address, and Telephone Number of Certified MBE/WBE Subcontractor	Work to Be Performed or Materials To Be Supplied	Participation	
		MBE%	WBE%
Santa Fe Builders 2090 Archibald Cucamonga, CA 91701 (909) 987-2868	Architecture/ Chlorine Building Construcion	18 %	
Action Valves & Fittings 117 Press Lane Chula Vista, CA 91910 (619) 425-7950	Piping/ Valves /Pipe Supports		5.8 %
Western Paving 2143 South Myrtle Monrovia, CA 91016 (818) 259-4199	Paving		2.2 %
Total Participation		<u>18 %</u>	<u>8 %</u>