

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

MWD
Metropolitan Water District of Southern California

NOV - 8 1994

7-1

Karen E. Smith Date October 13, 1994
EXECUTIVE SECRETARY

To: Board of Directors (Engineering and Operations Committee--Action)
(Special Committee on Water Quality
and Environmental Compliance --Action)

From: General Manager

Subject: Award of Contract to Fisons Instruments, Inc., for the Procurement of a
Replacement Mass Spectrometer

RECOMMENDATION

That the General Manager be authorized to enter into a contract with Fisons Instruments, Inc., for an amount not to exceed \$765,000, including applicable sales tax, for the nonbid, do not substitute purchase of a Fisons AutoSpec-FPD-OA-Time of Flight mass spectrometer, under Appropriation No. 670, subject to the contract being in form approved by the General Counsel.

BRIEF DESCRIPTION

The procurement of a replacement mass spectrometer was approved as part of the 1993/1994 capital program budget (program No. 5-6700) and your Board approved the appropriation for \$952,000 in October 1993. The present mass spectrometer, purchased in 1977, enabled Metropolitan to substantially influence the first stage of the Disinfectants/Disinfection By-Products (D/DBP) Rule. After more than 16 years of usage, it is obsolete and is no longer supported by the manufacturer, thus a replacement is needed. The price for the new Fisons instrument is at least \$10,000 below the budgeted amount. The cost benefit analysis of purchasing a new gas chromatograph/mass spectrometer (GC/MS) compared with contracting with a university or commercial laboratory indicated that it is more cost effective for Metropolitan to perform GC/MS applied research in-house.

<p><u>CONTRACT TYPE</u></p> <p><input checked="" type="checkbox"/> NEW</p> <p><input type="checkbox"/> AMENDED</p> <p><u>CONTRACT FORM</u></p> <p><input type="checkbox"/> LEASE</p> <p><input type="checkbox"/> PROFESSIONAL SERVICES</p> <p><input checked="" type="checkbox"/> OTHER, BLANKET ORDER</p>	<p><u>FUNDING</u></p> <p><input checked="" type="checkbox"/> CAPITAL</p> <p><input type="checkbox"/> O & M</p> <p><u>BUDGET STATUS</u></p> <p><input checked="" type="checkbox"/> FY 93/94 AMT <u>\$952,000</u></p> <p><input type="checkbox"/> OUT-YEAR AMT _____</p> <p><input type="checkbox"/> NON-BUDGET AMT _____</p>	<p><u>TYPE OF COMPETITION</u></p> <p><input type="checkbox"/> RFQ</p> <p><input type="checkbox"/> RFP No. _____</p> <p><input type="checkbox"/> INFORMAL RFP</p> <p><input type="checkbox"/> OTHER COMPETITION</p> <p><input checked="" type="checkbox"/> SOLE SOURCE</p>
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PURPOSE/BACKGROUND

The mass spectrometer instrumentation in the Water Quality Laboratory must be replaced to enable Metropolitan to establish needed information to support Metropolitan's proactive role in Stage 2 of the Disinfectants/Disinfection By-Products Rule. In addition, this replacement mass spectrometer is required to analyze for dioxin and other similar compounds requiring high resolution MS analyses at extremely low concentrations (parts-per-trillion).

ACTIONS & MILESTONES

Since Board approval to replace the mass spectrometer, staff has conducted a market survey, evaluated various instrument's capabilities, distributed performance evaluation (PE) samples and evaluated PE sample results. Four manufacturers of high resolution mass spectrometers were identified: Kratos Analytical, Jeol, LTD, Finnigan MAT and Fisons Instruments, Inc. Kratos Analytical has since gone out of business. Evaluation of instrument capabilities as provided by the instrument manufacturers showed that Jeol, LTD, did not offer the high sensitivity features required by Metropolitan and was not further considered. Finnigan MAT and Fisons appeared to have the necessary instrument capabilities. However, evaluation of the PE sample results showed that the Fisons instrument was the only one with the required capabilities.

MBE/WBE

There are no minority or women owned businesses that manufacture high resolution mass spectrometers. The only manufacturers of high resolution mass spectrometers are international corporations.

CEQA COMPLIANCE / ENVIRONMENTAL DOCUMENTATION

The proposed project is exempt from the provisions of CEQA because there is no possibility that the project may have an effect on the physical environment.

NUMBER OF CANDIDATES NA

INVITED TO RESPOND

SUBMITTED PROPOSALS _____

SHORT-LISTED

CONTRACTS WITH CONSULTANT

1 TOTAL NO.

MAXIMUM DOLLAR AMT. \$40,500

EVALUATION

CRITERIA _____

CONTRACTUAL DETAILS

ANTICIPATED DURATION ONE YEAR OR LESS

HOURLY RATES _____

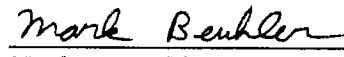
SOLE SOURCE JUSTIFICATION

Performance evaluation samples were prepared and distributed to Finnigan MAT and Fisons Instruments to determine if the equipment had the required sensitivity, resolution and mass identification capabilities needed by Metropolitan. The Fisons instrument was the only unit that provided acceptable performance due to its unique design. Section 8103(d) of the Administrative Code states that competitive bidding is not required if a product is unique and no other product has a similar feature that meets Metropolitan's needs.

Approval of Request

**John R. Wodraska
General Manager**

Submitted by:



**Mark D. Beuhler
Director of Water Quality**

Concur:



**John R. Wodraska
General Manager**