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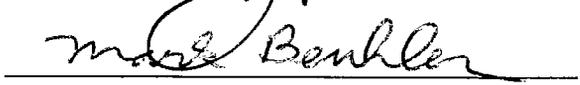
METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

7-5

December 16, 1996

To: Board of Directors (Executive Committee--Action)

From: General Manager 

Submitted by: Mark D. Beuhler
Director of Water Quality 

Subject: Twelfth Year of Voluntary Research Subscription Program--American Water Works Association Research Foundation

RECOMMENDATION

It is recommended that the Board authorize the General Manager to make payment of \$400,000 to the American Water Works Association Research Foundation (AWWARF) as Metropolitan's contribution to fund AWWARF's applied research programs for the calendar year 1997.

EXECUTIVE SUMMARY

The AWWARF has asked Metropolitan to participate in the twelfth year of its Voluntary Research Subscription Program. The amount requested for the calendar year 1997 is \$400,000. Metropolitan's contribution, along with contributions from other water utilities and consulting firms, will be used to fund critical applied research projects in the drinking water field. In addition, in 1996 Metropolitan's Water Quality Division was awarded \$467,000 in grant money from AWWARF, and is scheduled to receive \$829,000 from these and ongoing AWWARF grants in the next few years.

DETAILED REPORT

The AWWARF has asked Metropolitan to participate in the twelfth year of its Voluntary Research Subscription Program. The amount requested for the calendar year 1997 is \$400,000. Metropolitan's contribution, along with contributions from other water utilities and consulting firms, will be used to fund critical applied research projects in the drinking water field.

The AWWARF is a non-profit corporation which was established in 1967 to promote, coordinate, and finance applied research in the operation and management of public water supply systems. Currently, AWWARF has 820 utility subscribers, 49 consulting firm subscribers, and 15 manufacturers.

Applied research topics funded by AWWARF address key problems identified by the water industry and provide essential information for impacting the development of drinking water regulations. Reports on these studies are disseminated to all subscribers on a regular basis.

Metropolitan and its member agencies have benefited from AWWARF's program in a number of areas, including the Information Collection Rule; the Disinfectants/Disinfection By-Products (D/DBP) Rule; the Enhanced Surface Water Treatment Rule; taste and odor control strategies; and detection and treatment of microbial pathogens. Specifically, AWWARF has funded \$1,406,070 on arsenic research, \$59,307,664 on microbials and disinfection by-products, and \$21,896,912 on *Cryptosporidium*, which are critical to Metropolitan and member agencies.

This past year Metropolitan successfully competed for grants and is scheduled to receive \$829,000 in arsenic, DBP, taste and odor, and ozone/PEROXONE research over the next few years (see attachment).

Utility contributions are based on \$1.70 per million gallons delivered per year, with credits given for water purchased from subscribing wholesalers and water sold wholesale. Therefore, Metropolitan covers part of the funding of AWWARF for the 22 Member Agencies that are AWWARF's utility subscribers. Metropolitan contributed \$375,000 for the calendar year 1996.

Adequate funds for one-half of the proposed \$400,000 contribution have been budgeted for fiscal year (FY) 1996/97 because payments must be made on a calendar year basis. If this recommendation is approved by your Board, the other half of the proposed \$400,000 contribution would be included in the FY 1997/98 budget. The proposed contribution is categorically exempt from the California Environmental Quality Act because it involves only feasibility and planning studies.

JSS/RLW/mi

Attachment

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ATTACHMENT

Metropolitan's Current Involvement with AWWARF Projects*

Project Title	Principal Investigator	Duration of Study	WQD Staff Involved	Monies Receiving
Demonstration-Scale Evaluation of Engineering Aspects of the Ozone/Peroxide Advanced Oxidation Process	J. T. Gramith, MWDC	7/89 - 6/97	Process Development, Chemistry, Microbiology	\$140,000
Investigation of Biological Stability of Drinking Water Treatment Plants and Distribution Systems	A. Camper, Montana State University	1/95 - 7/97	Process Development, Chemistry	\$0 (Participating Utility)
Assessment of Molecular Epidemiology of Waterborne Cryptosporidium with Respect to Origin	P. Rochelle, R. DeLeon, MWDC	12/96 - 12/98	Microbiology	\$240,000
Distribution Generated Taste and Odor Phenomena	D. Khiari, MWDC	1/97 - 2/2000	Chemistry, Process Development	\$145,000
Optimizing Filtration in Biological Filters	P. M. Huck, U. of Waterloo (Canada)	6/96 - 4/98	Process Development, Chemistry, Microbiology	\$100,000
Colonization of Biologically Active Filter Media with Pathogens	A. Camper, Montana State University	1/96 - 6/97	R. DeLeon, Process Development	\$47,000
Arsenic Treatability Options and Evaluation of Residuals Management Issues	G. Amy, U. of Colorado	1/95 - 1/97	Engineering Liaison, Process Development	\$30,000
Strategies to Control Bromide and Bromate	G. Amy, U of Colorado	11/94-2/97	Process Development, Chemistry	\$25,000
Assessment of Blue-Green Algal Toxins in Raw and Finished Waters	W. Carmichael, Wright State University	12/95 - 10/97	Chemistry	\$20,000
Case Studies of Modifications of Treatment Practices to Meet the New D/DBP Regulation	S. Krasner, MWDC	9/96 - 7/98	Chemistry	\$82,000

* = Project Advisory Committee (PAC) involvement excluded. Metropolitan staff currently serve on 27 different PACs.