

WEST BASIN MUNICIPAL WATER DISTRICT

DECEMBER 18, 2000

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## ACTION CALENDAR

RECYCLED WATER DISTRIBUTION SYSTEM SURGE CONTROL SYSTEMSUMMARY:

The West Basin Recycled Water Distribution System is experiencing pressure fluctuations, generated by the backwash cycles of the microfiltration units at the Mobil Boiler Feedwater Facility and the Carson Regional Water Recycling Plant. In certain portions of the distribution system, these pressure fluctuations are having a negative impact on some customers' ability to take the recycled water. Flow Science Inc. was retained to analyze the hydraulics of the distribution system and recommend a solution to this problem.

Flow Science reviewed the operations at the existing treatment facilities to determine if operational modifications could mitigate the surges. They found that this was not possible, and Flow Science has recommended that a hydro-pneumatic surge tank be installed at the Mobil and Carson facilities to dampen the pressure surges close to the point of generation. The surge tanks have been sized at 12 feet in diameter by 20 feet long at Carson and 12 feet in diameter by 12 feet long at Mobil. Staff has reviewed the recommended action and agrees it is the most effective way to dampen the pressure surges to within acceptable limits.

Design-Build Services

Staff suggests proceeding with this Project using the design-build method in order to accommodate for a very short schedule. The Project goal is to alleviate the customer complaints being generated by the pressure fluctuations before the summer flows begin in May. The estimated completion date using the design-bid-build method is estimated at June 30, 2001, while the expected completion date for this Project using design-build is April 20, 2001.

A "Request for Proposals" (RFP) for design-build services was sent out for the design and construction of the surge control system, consisting of footings, surge tanks, air compressors, mechanical, electrical and instrumentation work. The work at both facilities is to be done by April 20, 2001. The field employees are to follow the access and safety requirements unique to each facility, particularly within the Mobil Refinery.

The RFP was prepared by staff and sent to the design-build firms listed below. Firms in attendance at the (mandatory) Pre-Proposal Meeting are noted with an asterisk.

Advanco / J. F. Shea  
ASL Consulting Engineers\*  
CDM Engineers & Constructors\*

JW Contracting  
Kiewit Pacific  
Lee & Ro

Pascal & Ludwig\*  
Schuler Engineering\*  
Scott Company

The RFP did not stipulate a pre-determined schedule, only that West Basin wants the improvements operational by no later than April 20, 2001. Proposers were directed to submit the best schedule possible based on their proposed design and their ability to obtain and install the materials and equipment.

For a project of this dollar value, the Board's policy for the award of design-build contracts stipulates that proposals deemed "responsive" and within 14% of the lowest price proposal will be evaluated further. The proposals that fell within the "qualifying range" were evaluated based

on the criteria stipulated in the RFP. A score will be assigned for each criterion to quantify the teams' qualifications, relative to the maximum allowable points. A summary of the proposal evaluations and recommendation will be provided at the Board meeting.

Project Schedule:

The tentative schedule for the West Basin Recycled Water Distribution System Surge Arrest Project award and completion is as follows:

Water Resources Committee Review	December 7, 2000
Proposals Due	December 13, 2000
Request Board Approval for D/B Contract	December 18, 2000
Execute Contract for D-B Services (anticipated)	January 2, 2001
Complete Design-Build Phase of Project	April 20, 2001

FISCAL IMPACTS:

The funds for the design and construction of West Basin Recycled Water Distribution System Surge Arrest Project are available in the Fiscal Year 2000-01 CIP Budget.

ENVIRONMENTAL COMPLIANCE:

No environmental documentation is required for the improvements envisioned, as the work is considered a minor improvement within the existing treatment facilities.

COMMITTEE STATUS:

The Water Resources Committee reviewed this item on December 7, 2000 and agendized to the December 18, 2000 Board meeting for consideration.

RECOMMENDED MOTION:

Authorize the General Manager to enter into an agreement with the recommended firm to provide design-build services as required for West Basin Recycled Water Distribution System Surge Control Project for the amount of their proposal, plus ten percent (10%) to cover unforeseen conditions.

LIST OF EXHIBITS:

Exhibit "A" – Evaluation Summary Form - Handout