

WEST BASIN MUNICIPAL WATER DISTRICT

MAY 10, 2005 - Water Resources
Little, Baker

MAY 23, 2005 - Board Meeting

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ACTION CALENDAR

PHASE IV EXPANSION PROJECT UPDATE
PLATE & FRAME PRESS IMPROVEMENTSSUMMARY:**Design-Build Construction Update**

The Design-Build Contractor has continued to expedite efforts throughout the Plant. Several meetings have been held with the contractor, construction manager, consultants, and District staff to schedule the Barrier System shut-downs and start-ups for the microfiltration (MF), reverse osmosis (RO), and ultraviolet (UV) systems. These shut-downs and start-ups must be planned and scheduled in advance to minimize interruptions to the Barrier System. These items will be tied into the project schedule and milestone dates. A partnering meeting is scheduled for May 13, 2005 to discuss project schedule, milestone dates, goals, and progress. A summary of construction efforts to date are described below:

Recently Completed Work:

- RO System containment walls for Train No. 9 and piping work for sulfuric acid;
- Title 22 Pretreatment High-Rate Clarifier trough walls and baffle walls placed;
- MF System pour walls to final elevation and install piping;
- Decarbonator 7 start-up, relocation of decarbonator 2; and
- Plate and Frame Press odor control system installed.

Major Work in Progress:

- Title 22 Pretreatment High-Rate Clarifier internal equipment placing and construction;
- MF System chemical area grading and sump wall preparation;
- Decarbonator area piping and start-up of decarbonator 2;
- Solids High-Rate Clarifier piping installation; and
- Plate and Frame Press east press off-line and undergoing refurbishment.

With the milestone date for the Barrier System Expansion approaching, staff has met with the DB contractor and consultants to verify permitting activities and requirements for the new and expanded systems.

Plate & Frame Press Piston Replacement

The existing plate & frame press process is used as the final solids handling step to dewater plant effluent and produce a solids cake of approximately 50%. Two presses are used for the dewatering process. Part of the Phase IV Project scope is to increase the capacity of each plate & frame press through the addition of press plates.

Work on the press expansion began in late April. During the shutdown and dismantling of the first plate press, the contractor discovered that the existing pistons and cylinders were damaged due to extensive wear and galling of the steel. The extent of damage and intense pressures exerted on the equipment make in-place repairs unfeasible. Replacement of the pistons and cylinders is necessary to bring the plate & frame press to satisfactory operation. Although only one press has been taken out of service and inspected, it is anticipated that the second press will have similar damage and will also require replacement of the pistons and cylinders. The total estimated cost for the replacement work for both presses is \$290,000 and will extend the shutdown of the first press by four to six weeks.

FISCAL IMPACTS:

Although the replacement work will be performed by the Phase IV Design-Build Contractor, payment of the plate & frame press piston replacement work will be made through West Basin's Facility Replacement Fund.

ENVIRONMENTAL COMPLIANCE:

Not required.

COMMITTEE STATUS:

This item was reviewed by the Water Resources Committee on May 10, 2005 and recommended for approval at the May 23, 2005 Board meeting.

RECOMMENDED MOTION:

That the Board authorizes the Co-General Managers to authorize disbursement of funds to Filanc/HDR Design-Builders to pay for both plate & frame presses piston and cylinder replacement for an amount not-to-exceed \$290,000.

LIST OF EXHIBITS:

None.