

December 22,1998

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

From: General Manager _____

Submitted by: Chief Engineer _____

Subject: Authorize Construction Change Orders for the Inlet/Outlet Tower of the Eastside Reservoir Project

RECOMMENDATION(S)

It is recommended that your Board:

1. Authorize the General Manager to execute change orders to the contractor constructing the Inlet/Outlet Tower in aggregate not to exceed \$4,229,930 (10.4% of original contract) and,
2. Increase the contract by \$2,200,000, in form approved by the General Counsel.

EXECUTIVE SUMMARY

The Inlet/Outlet Tower is a reinforced concrete structure, 270 feet in height, that will control the fill and release of water in the reservoir. Connected to the east end of the P-1 Pressure Tunnel, the Inlet/Outlet Tower provides control for release of water to the San Diego Canal and Eastside Pipeline.

In December 1996, the Board authorized Appropriation No. 15123/ Authorization No. 37 in the amount of \$47,758,460 to fund all costs related to Contract No. 1482 to construct the Inlet/Outlet Tower for the ESRP, and authorized award of a contract for \$40,598,600. Changes have been made to the contract to improve the interface with other project elements, including modifications in structural, mechanical and electrical systems to accommodate Metropolitan Furnished Equipment (MFE) changes and in reinforcing steel requirements in response to the Department of Safety of Dams (DSOD) review and comments; the cost of these changes will exceed the existing expenditure authorization. Therefore, notification and authorization by your Board is required.

JUSTIFICATION

Without completion of the Inlet/Outlet Tower, Metropolitan will be unable to fill the reservoir as scheduled. The Inlet/Outlet Tower is the primary means of filling the reservoir and discharging water through the P-1 Pressure Tunnel and P-1 Pumping Plant to the San Diego Canal and Eastside Pipeline. As stated above, modifications in structural, mechanical and electrical systems

to accommodate MFE changes, modifications in reinforcing steel requirements in response to DSOD review, and interfaces with other contracts, will necessitate an increase in expenditure authorization.

ALTERNATIVE TO PROPOSED ACTION

- 1) Do not authorize the General Manager to award extra work orders.

Since the Inlet/Outlet Tower is essential to the filling and operation of the ESRP, continuing the construction of the Tower without the increased authorization requested is not a feasible alternative. Without additional authority the remaining funds will be insufficient to complete the facility and ensure it fulfills its critical role.

ACTIONS AND MILESTONES

- | | |
|---|--------------------|
| <input type="checkbox"/> Notice to Proceed for Construction: | March 1997 |
| <input type="checkbox"/> Forecasted completion of Construction: | late-December 1999 |

CEQA COMPLIANCE / ENVIRONMENTAL DOCUMENTATION

All California Environmental Quality Act (CEQA) requirements have been satisfied for the proposed action. In October 1991, your Board certified the Final Environmental Impact Report for the ESRP. This action satisfied the provisions of CEQA, and no further environmental documentation or reviews are necessary for your Board to take action on these recommendations.

DETAILED REPORT

Construction of the Inlet/Outlet Tower under Contract No. 1482, Specifications No. 1343, includes excavation and construction of the transition to the P-1 Pressure Tunnel, placement of reinforced mass concrete for the Inlet/Outlet Tower, supply and installation of large diameter steel pipe, bulkheads, emergency closure gate, fishscreens, and installation of eighteen 84 inch diameter butterfly valves. The Contract also requires construction of an access bridge to the Tower and installation of utilities and control systems to interface the Inlet/Outlet Tower with other components of the ESRP.

The contract for the Inlet/Outlet Tower was advertised for bid based upon the best available information of site conditions, MFE design, and construction contract interfaces with the West Dam, P-1 Pumping Plant, P-1 Pressure Tunnel, and Secondary Inlet. Subsequent to award of the Inlet/Outlet Tower Contract, final details of the MFE and other contract interfaces became available. These changes included foundation and equipment bases, mechanical piping and electrical conduit and cable. Additionally, changes were made in reinforcing steel requirements in response to DSOD review and comments. These design details required change orders to incorporate them into the Contract. The combination of current and additional changes will exceed the present contract authority.

Section 8115(d) of the Metropolitan Water District Administrative Code requires the approval of your Board for funding of extra work orders when the total cumulative amount expended on extra work exceeds the greater of five percent of the contract bid amount or \$250,000. Cost of the changes that have been issued to date are currently being negotiated with the Contractor. It is estimated that settlement of these changes, as well as anticipated future changes, will exceed the present contract authority.

DGM/JEL/amb/hjg