

Spreadsheet  
Post-Processing

D - 0 0 5 5 1 4

D-005514



1416 Ninth Street, Suite 1155 (916) 657-2666  
Sacramento, California 95814 FAX (916) 654-9780

Date: March 10, 1997  
To: Stein M. Buer  
Assistant Director  
Technical Services Branch  
CALFED Bay-Delta Program  
From: Mark W. Cowin *MWC*  
Supervising Engineer  
Storage Facilities Unit  
Subject: Post-Processing Operations Model Initial Results Draft Report

Bay-Delta Program Technical Services Branch staff have completed an initial evaluation of potential new south of Delta off-aqueduct storage using the CALFED Post-Processing Operations Model. Preliminary results are documented in the attached draft report. This initial evaluation includes sensitivity analyses of operational parameters and storage capacities for south of Delta storage facilities dedicated to 1) environmental water supply benefits and 2) agricultural and urban water supply benefits.

Over the past several months, Program staff have enhanced the CALFED Post-Processing Operations Model to provide additional flexibility in simulated operations and increased accuracy in the accounting of water supplies. The model is suitable for analyzing the relative effects of various storage operation rules and goals, identifying critical external constraints, and providing initial refinement to the ranges of storage and conveyance capacities to be considered in future studies. However, caution should be taken in applying the absolute estimates of water supply benefits from this model. Information developed from this evaluation will be used to guide more detailed studies, including DWRSIM system operation studies. These future DWRSIM studies will provide better measures of quantitative water supply benefits.

The attached draft report includes a short overall summary followed by detailed documentation of the two parallel evaluations completed for south of Delta storage facilities. These two evaluations considered storage operations dedicated exclusively to 1) environmental water supply benefits and 2) agricultural and urban water supply benefits. Future evaluations using the CALFED Post-Processing Operations Model will consider the effects of joint storage operations for both environmental water supply benefits and agricultural and urban water supply benefits. Similar evaluations are also ongoing for upstream of Delta off-stream storage.

Attachment

CALFED Agencies

California

The Resources Agency  
Department of Fish and Game  
Department of Water Resources  
California Environmental Protection Agency  
State Water Resources Control Board

Federal

Environmental Protection Agency  
Department of the Interior  
Fish and Wildlife Service  
Bureau of Reclamation  
Department of Commerce  
National Marine Fisheries Service