

**Status Reports on Technical Studies
for the
Storage and Conveyance Refinement
Process**

EVALUATION
OF
UPSTREAM OF DELTA OFF-STREAM STORAGE
AND
SOUTH OF DELTA OFF-AQUEDUCT STORAGE
USING THE CALFED POST-PROCESSING
SPREADSHEET OPERATIONS MODEL

PRELIMINARY DRAFT

May 9, 1997



CALFED
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PROGRAM



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PROGRAM**

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Subject: Post-Processing Operations Model Initial Results Draft Reports

Bay Delta Program Technical Services Branch staff have completed an initial evaluation of potential upstream of Delta off-stream storage and south of Delta off-aqueduct storage using the CALFED Post-Processing Operations Model. This initial evaluation includes sensitivity analyses of operational parameters and storage capacities for reservoir storage dedicated to 1) environmental water supply benefits, and 2) agricultural and urban water supply benefits. Preliminary results documented in the attached draft reports include a short overall summary followed by detailed documentation of the evaluations completed for both potential reservoir storage facilities.

The CALFED Post-Processing Operations 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. Two important limitations must be considered when interpreting model results. First, the CALFED Post-Processing Operations Model simulations do not integrate the operations of new storage and conveyance components with the operation of existing facilities. Second, the model simulations do not dynamically model Delta processes. While these simulations are constrained by surplus Delta water, Delta export limitations, and physical capacities as defined by DWRSIM, specific in-Delta flows and salinities are not evaluated. Information developed from this evaluation will be used to guide more detailed studies, including DWRSIM system operation studies. Future DWRSIM and Delta hydrodynamic modeling studies will provide better measures of quantitative water supply benefits.

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