



M e m o r a n d u m

Date: July 31, 1996

To: George Barnés

From: Steve Yaeger *[Signature]*

Subject: Modeling Support

The CALFED Bay Delta Program is requesting your support to provide computer simulation studies to assist in refinement of the proposed components included in the Phase II alternatives. The initial simulation studies to be performed for the component refinement process are identified below:

Conveyance and Storage Simulation Studies - Initial Set (Boundary Conditions)						
	Base Study*	Run 1	Run 2	Run 3	Run 4	Run 5
Channel Conveyance (cfs)	Existing	7,500	15,000	0	Existing	Existing
Isolated Facility (cfs)	-----	15,000	0	15,000	5,000	10,000
Storage - (TAF) North	-----	3,000	3,000	0	0	1,500
In-Delta	-----	400	400	0	0	200
South	-----	1,700	1,700	0	1,700	850
Conjunctive Use (TAF) North	-----	500	500	0	0	250
South	-----	500	500	0	500	250

* Study currently being performed for Bulletin 160-98.

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

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We understand your staff is working with our staff and Consultant Team in defining the operational assumptions for these studies and is defining the need for additional studies. We also understand that it is expected that this effort along with the necessary program coding revisions will be completed by August 12, 1996.

We understand the base simulation study for the Bulletin 160-98 will be completed shortly and we are requesting the results of this study along with the assumptions used to perform this study. In addition, we would appreciate if the initial set of simulation studies identified in the above table could be performed using the revised computer model and assumptions by August 23, 1996.

As you are aware, these simulation studies will establish the basis for subsequent spreadsheet post-analysis to estimate water supply and water quality benefits for the proposed components. In addition, these runs serve the following purposes:

- They verify that no significant characteristics are being omitted from the spreadsheet analysis;
- They assist in establishing boundaries for the range of model parameters; and
- They assist in verifying the validity of the spreadsheet analysis for the purpose of component refinement.

We anticipate that a series of DWRSIM and DWRDSM studies will be necessary through the component refinement process, as well as the Impact Analysis effort of Phase II. Therefore, in order to minimize the paper work and to expedite the progress of the studies, I would appreciate it if you would identify a single contact for our staff, for Stein Buer, or Ron Ott, Consultant Team Coordinator, to request additional studies as necessary. The initial effort by your staff is being provided through the work authority of the Division of Planning's CALFED Long Term Planning Support Branch, under our agreement with Mike Ford and Stein Buer to utilize that vehicle to fund the component refinement analysis.

If you have any questions, please contact me at 657-2666 or have your staff contact Stein Buer at 653-6628.

cc: Victor Pacheco
Mike Ford
Stein Buer
Marco Bell