CALFED Bay-Delta Program
Conveyance/Storage Component Workplan

I. Purpose/Overview

This element of the overall CALFED Bay-Delta Program will focus on refining the ranges of conveyance and storage components. The large variation in conveyance and storage sizes will be reviewed based on previous studies and post-processing analysis of completed studies to refine the range necessary for evaluation during the subsequent impact analysis. The table below describes the current ranges and potential increments for refining the Phase II alternatives.

Phase II Alternatives - Conveyance and Storage Component Matrix				
	Existing System	Modified System	Dual System	
	Channel Conveyance	Channel Conveyance	Channel Conveyance	New Conveyance
Conveyance (cfs)	7,500 10,300 12,000 15,000	7,500 10,300 12,000 15,000	0 7,500 10,300 15,000	15,000 10,000 7,500 5,000
STORAGE - North (TAF)	0 500 750 1,000 1,500	0 500 750 1,000 1,500	0 750 1,000 1,500 2,000 2,500 3,000	
South	0 500 750 1,000	0 750 1,000 1,500	0 750 1,000 1,500	
In-Delta	0 200 400 600	0 250 350 500	0 200 400 600	
Groundwater / Conjunctive Use (TAF)	0 200 400 600	0 250 350 500	0 250 350 500	

II. Approach

Coordination and Management - Involvement of Program Staff is necessary during Pre-feasibility/reconnaissance investigations to ensure agency and consultant experts are working cooperatively. Meet on weekly basis with consultant to discuss expenditure and work effort status.

Meet with consultant team on regular basis to provide review and guidance in refinement of analysis and presentation of results. Coordinate distribution of analysis and review by Program and Agency staff to provide guidance for consultant team in addressing concerns raised during this review. Develop and maintain database of comments and how they were addressed in conjunction with Agency Liaisons.

Storage/Conveyance Component Refinement - Hydraulic analysis of operational, physical facilities, water quality, and streamflow assumptions.

Operations and Facilities Modeling and Analysis- Evaluate operational and facility configurations to refine definition of components and operational scenarios of alternatives. Collect and review existing studies and/or analysis to define preliminary range for various combinations of storage elements and conveyance approaches and document operational parameters for component evaluation. Perform additional post processing analysis of completed simulation studies to supplement information gathered during review of existing studies to define component elements. The storage elements consist of Groundwater Banking, North of Delta Storage, South of Delta Storage, and In-Delta Storage. The conveyance approaches include Existing Through Delta, Modified Through Delta, and Dual Transfer approaches. Review previous evaluations or conduct post processing analysis, as necessary, of conjunctive use for ground water and surface water supplies North and South of the Delta

Provide a report identifying operational assumptions and recommended ranges for impact analysis. Present results in graphical formats identifying water supply reliability and cost effectiveness for individual and combined elements. Identify variances between operational assumptions for this analysis and that used for the baseline and no-action alternative.

Water Quality Analysis -Review baseline and no-action operational assumptions and determine appropriate operational parameters for export water quality, Delta water quality, and outflow. Perform post processing analysis of completed simulation studies to evaluate water quality parameters at locations of interest. The parameters of interest include Delta inflow, outflow, salinity, dissolved oxygen, and toxicity. The locations of interest include export facility locations, Suisun Marsh, and other compliance monitoring locations in the Delta. This effort will require close coordination with the Water Quality Technical Team.

Provide a report identifying operational assumptions and value ranges for parameters of interest at identified locations. Present results in graphical formats identifying parameter variability (influence diagrams) by range and location for individual and combined elements.

Biological and Ecological Flow Evaluation - Analyze existing data and assumptions of critical periods when augmentation of flow will provide the most benefit to key species. In addition, analyze the time periods when flows could be diverted for storage without significant biological or ecological impact. This analysis of low flow and flood conditions will include baseline and no-action assumptions to determine the potential flows which are least important to fisheries and periods in which additional flows are most important to fisheries. This effort will require close coordination with the Agency Ecosystem Review Team and the BDAC Ecosystem Workgroup.

Provide a report identifying operational assumptions and opportunities to divert flood flows or supplement low stream flows for various water year types. Present results in graphical formats identifying least harmful periods and most beneficial periods for individual and combined elements. Present result by the following water year types: Wet, Above Normal, Average, Below Normal, and Critical.

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III. Schedule/Deliverables

Task Description	Responsible Team Member	Target Date
Contract Status Meetings	Task Coordinator (TC) Consultant Coordinator (CC)	Weekly
Meetings/Conference Calls	TC	As Needed with Agency Staff
Begin work effort, Meeting with Consultant Team Review latest component information, define graphical presentation needs, and begin evaluation for conveyance and storage elements. Document assumptions for component evaluation.	Consultant Team (CT)	July 8, 1996
PCT Meeting Update on conveyance / storage evaluation.	Task Coordinator (TC) Consultant Coordinator (CC)	July 10, 1996
Meeting with Consultant Team Review preliminary evaluation, assumptions and graphics presentation, and comments from PCT meeting. Refine presentation for BDAC and tentative CALFED Mngmnt Team Meeting.	CT TC	July 15, 1996
Meeting with Consultant Team Review BDAC and CALFED Mngmnt Team input, Review subsequent evaluation, refined graphical presentation, and identify necessary modifications.	TC CT	July 24, 1996

Draft Conveyance/Storage Evaluation Report Draft report including assumptions for distribution to PCT/ERT and for tentative CALFED meeting on August 8, 1996.	CT	July 31, 1996
PCT/ERT Meeting Review/comment on Draft Evaluation Report submitted by consultant on July 31, 1996	TC CC	August 14, 1996
Meeting with Consultant Team Review comments from August 14, 1996 PCT/ERT meeting on Draft Evaluation Report submitted by consultant on July 31, 1996. Identify necessary revisions for subsequent revised report.	TC	August 19, 1996
Revised Draft Conveyance / Storage Evaluation Report Distribute revised report to PCT for review prior to September 11, 1996 meeting.	CT	August 26, 1996
Meeting with Consultant Team Review subsequent evaluation and prepare for PCT, BDAC(?), CALFED(?), other meetings ?	TC CT	August 29, 1996
Meeting/Conference Call with Agency Liaisons ? Identify how agency comments were addressed and refine database.	TC CC	September 3, 1996

PCT Meeting Review/comment on Revised Draft Evaluation Report submitted by consultant on August 26, 1996.	TC CT	September 11, 1996
Meeting with Consultant Team Review comments from September 11, 1996 PCT meeting on Revised Draft Evaluation Report submitted by consultant on August 26, 1996. Identify necessary revisions for final draft report. Identify content and format of final draft report.	TC	September 16, 1996
Draft Executive Summary Distribute to Program Team for Review.	CT TC	September 27, 1996
Final Draft Conveyance / Storage Evaluation Report Distribute to PCT for review.	CT TC	September 27, 1996
Final Executive Summary	CT	October 4, 1996
PCT Meeting Review conveyance / storage evaluation and refined ranges for subsequent impact analysis.	TC CC	October 9, 1996
Others ?		