New Bullards Bar Outlet Capacity Increase
YCWA-03

I. Project Sponsor Contact Information

Lead Agency/Organization	Yuba County Water Agency
Name of Primary Contact(s)	Curt Aikens
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II. General Project Information

Project Title	New Bullards Bar Outlet Capacity Increase
Project Total Budget	$37,230,000
Project Funding Match	$9,307,500 -Yuba County Water Agency
Project Funding Request	$27,922,500
Can a detailed cost estimate be provided upon request?	Yes
Project Location:	New Bullards Bar Dam
Latitude	39.3933° N
Longitude	121.1431° W
Could you provide a map of the project location including boundaries upon request?	Yuba
County	Yuba
City/Community	Dobbins
Watershed/subwatershed	Yuba/North Yuba
Groundwater Basin	Hard Rock Aquifer
Project Type	Facility Construction

III. Project Description

The purpose of this project is to reduce Yuba River peak flood flows by creating more usable flood storage space in New Bullards Bar Reservoir. This is accomplished by increasing the outlet capacity so that more water can be evacuated from the reservoir in advance of the peak flood flow.

The project would increase outlet capacity by 20,000 cubic feet per second (cfs) at the bottom of the current flood pool level and at higher reservoir stages. This project will enhance the Forecasted-

Coordinated Operations (F-CO) of New Bullards Bar Reservoir.

Through increasing the outlet capacity by 20,000 cfs, 300,000 acre-feet of rededicated flood storage would be the maximum effective amount.

Adequate release capacity at reservoir stages lower than the bottom of the flood pool is needed in the optimization of flood release operations. In increasing outlet works, capacity would provide additional release capacity. This would entail constructing a new tunnel through the left abutment and south of the existing spillway. The tunnel would be 540-feet long, 25 feet wide, and 26 feet in height.

Outlet construction would require excavation in the upper left abutment area of the dam site. A construction access road would be built from the abutment area down to the outlet area to serve tunnel construction. Tunnel construction would start from the downstream portal and would continue toward the upstream portal. The tunnel would create 14,000 cubic yards of rock spoils created by staged drill and blast excavation methods. After excavation, the tunnel would belined with reinforced concrete. It is anticipated that excavation for the intake structure would be performed concurrently with access road construction and/or tunnel excavation. A natural cofferdam would be left in place in the inlet approach channel to protect the construction work and prevent an uncontrolled release of reservoir water through the excavation area and tunnel. The cofferdam would be removed and the approach channel and inlet training walls constructed during a low reservoir period when the intake structure approaches completion.

IV. Project Rationale/Issues Statement

This project principally addresses the regionally identified issue of flood management and would:

- Improve integrated flood management to ensure better emergency preparedness; and,
- Increase flood protection.

Additionally, the project further addresses the issue of climate change by providing an adaptive management strategy to respond to public safety threats posed by flood caused by extreme storm events and will improve regional and inter-regional emergency preparedness and coordination efforts.

V. Goals/Objectives/Performance Metrics

Goals Addressed by the Project	**Goal 5:** Protect public safety through emergency and drought preparedness and integrated flood management **Goal 6:** Address climate vulnerabilities and reduce greenhouse gas emissions
Objectives Addressed by Project	5.1 Improve integrated flood management to ensure emergency preparedness, increase flood protection and enhance regional and inter-regional collaboration; 5.2 Support regional and inter-regional collaboration to improve

	drought and emergency preparedness; 6.6 Promote regional and inter-regional collaboration to implement climate change adaptive management strategies
What performance metrics will be used to demonstrate that objectives are being met? Wherever possible, provide a quantitative measurement reflecting successful project outcomes.	TBD

VI. Resource Management Strategies

Improve Flood Management	
Flood Risk Management	The purpose of this project is to reduce Yuba River peak flood flows by creating more usable flood storage space in New Bullards Bar Reservoir and would improve the Forecasted- Coordinated Operations.

VII. Statewide Priorities

Climate Change Response Actions

- Adaptation to Climate Change: Water management system modifications that address anticipated climate

Practice Integrated Flood Management

- Better emergency preparedness and response
- Improved flood protection
- More sustainable flood and water management systems

Climate Change Adaptation

The project promotes climate change adaptation by responding to public safety threats posed by flood caused by extreme storm events. Additionally, the project will foster regional and interregional collaboration through improving the Forecasted- Coordinated Operations.

GHG Emissions Reduction

GHG emissions reduction strategies have yet to be considered. They will be addressed in the design stage of project development.

VIII. Project Status and Schedule

Project Stage	Description of Activities in	Planned/Actual Start	Planned/Actual

	Each Project Stage	Date	Completion Date
Planning	Preliminary planning conducted through engineering feasibility study (see technical reports below).		June 2003
Design	Preliminary design conducted through engineering feasibility study (see technical reports below.)		June 2003
Environmental Documentation (CEQA/NEPA)	TBD		
Permitting	Relevant permits identified through feasibility study (see technical reports below).		
Tribal Consultation (if not applicable, indicate by N/A)	N/A		
Construction/ Implementation	Pending available funding		

IX. Project Technical Feasibility

a. List the water planning documents that specifically identify this project.	
b. List the adopted planning documents the proposed project is consistent with (e.g., General Plans, UWMPs, GWMPs, Water Master Plans, Habitat Conservation Plans, etc.)	Draft Feather River Regional Flood Management Plan Central Valley Flood Protection Plan
c. List technical reports and studies supporting the feasibility of this project.	Flood Control Study Team, Report on Feasibility of Yuba-Feather Supplemental Flood Control Project, YCWA, June 2003 Forecasted Coordinated Operations of Lake Oroville and New Bullards Bar Reservoir for Managing Major Flood Events
If you are an Urban Water Supplier:	

1. Have you completed an Urban Water Management Plan and submitted to DWR?	Yuba County Water Agency (YCWA) does not supply water for direct urban use and is not subject to the Urban Water Management Plan Act (UWMPA).
2. Are you in compliance with AB1420?	See above.
3. Do you comply with the water meter requirements (CWC Section 525)?	See above.
If you are an Agricultural Water Supplier:	
1. Have you completed and submitted an AWMP?	Yes
If the project is related to groundwater:	
1. Has GWMP been completed and submitted for the subject basin?	Yes