

**Report to Congress for Future Water Resources Development (WRRDA 7001) Submission
Package**

Proposal Name: Feather River Project (Oroville Dam) Study

Submission Date: 08/26/2019

Proposal ID Number: 6e8561da-3354-45ef-a281-9e8fcd62d3df

Purpose of Proposal: The Oroville Facilities provide critical protection against catastrophic flooding, security of California's largest State-owned water supply system and are a foundational element of the State's rural and urban economy. DWR is conducting a pre-feasibility study for the Oroville Facilities which will identify projects that improve the reliability, robustness and resiliency of the Oroville Facilities and which can lead to improved flood management benefits. DWR expects that these infrastructure improvements will be considered in conjunction with an update of the 1970 Water Control Manual. New authorization is required for USACE to conduct a feasibility study of new and/or improved flood risk reduction infrastructure at the Oroville Facilities.

1. Administrative Details

Proposal Name: Feather River Project (Oroville Dam) Study

by Agency: California Department of Water Resources

Locations: CA

POC Name:

POC Phone:

POC Email:

Date Submitted: 08/26/2019

Confirmation Number: 6e8561da-3354-45ef-a281-9e8fcd62d3df

Supporting Documents

File Name	Date Uploaded
DWR ltr to USACE re Oroville WRDA August 26 2019.pdf	08/26/2019
Oroville Facilities Vicinity Map.pdf	08/26/2019

2. Provide the name of the primary sponsor and all non-Federal interests that have contributed or are expected to contribute toward the non-Federal share of the proposed feasibility study or modification.

Sponsor	Letter of Support
California Department of Water Resources(Primary)	The California Department of Water Resources (DWR) supports the inclusion of a Section 7001 proposal for a new feasibility study authority for the Oroville Facilities located on the Feather River. DWR requests that the proposal be included in the Annual Report to Congress pursuant to Section 7001 of Public Law 113-12 and considered for inclusion in the next Water Resources Reform and Development Act.

3. State if this proposal is for new feasibility study authority, a modification to an existing feasibility study authority, a modification to an existing USACE project authority, or a modification to an existing USACE Environmental Infrastructure Program authority. If it is a proposal for a modification to an existing study, project or program authority, provide the authorized water resources development feasibility study or project name.

[x] New Feasibility Study Authority

4. Clearly articulate the specific project purpose(s) of the proposed study or modification. Demonstrate that the proposal is related to USACE mission and authorities and specifically address why additional or new authorization is needed.

The Oroville Facilities provide critical protection against catastrophic flooding, security of California's largest State-owned water supply system and are a foundational element of the State's rural and urban economy. DWR is conducting a pre-feasibility study for the Oroville Facilities which will identify projects that improve the reliability, robustness and resiliency of the Oroville Facilities and which can lead to improved flood management benefits. DWR expects that these infrastructure improvements will be considered in conjunction with an update of the 1970 Water Control Manual. New authorization is required for USACE to conduct a feasibility study of new and/or improved flood risk reduction infrastructure at the Oroville Facilities.

5. To the extent practicable, provide an estimate of the total cost, and the Federal and non-Federal share of those costs, of the proposed study and, separately, an estimate of the cost of construction or modification.

	Federal	Non-Federal	Total
Study	\$1,500,000	\$1,500,000	\$3,000,000
Construction	\$440,000,000	\$1,560,000,000	\$2,000,000,000

Explanation (if necessary)

The pre-feasibility study being conducted by the non-federal sponsor is considering numerous infrastructure alternatives. Specific infrastructure will be identified upon completion of the pre-feasibility study which will reduce the uncertainty of the estimate of total cost. Infrastructure improvements under consideration include but are not limited to spillway augmentation, spillway redundancy, spillway improvements and a new low-level outlet. The total estimated Construction or Modification Cost Estimate is between \$500,000,000 to \$2,000,000,000. The estimate of the Federal share is between \$110,000,000 and \$440,000,000, based on the historic proportion of 22% of costs that were attributed to flood management and paid by USACE for the construction of the original Oroville Facilities.

6. To the extent practicable, describe the anticipated monetary and nonmonetary benefits of the proposal including benefits to the protection of human life and property; improvement to transportation; the national economy; the environment; or the national security interests of the United States.

The Oroville Dam, which is part of the Oroville Facilities, is the tallest dam in the United States and it protects the lives and property of hundreds of thousands of people living in Northern California through its provision of flood management benefits. Prior to its construction there were devastating floods in the city of Oroville, Yuba City, and other downstream communities. The Oroville Facilities protect federal highways including Highway 70, 99, and 162 as well as the Union Pacific Railroad. Absent the Oroville Facilities, there would have been major flooding in the City of Oroville, Yuba City, and other downstream communities in 1964, 1986, 1997, and 2017. The proposed infrastructure projects will improve the reliability and resiliency of the Oroville facilities for providing these current flood management benefits and are also expected to provide additional flood management benefits.

7. Does local support exist? If 'Yes', describe the local support for the proposal.

Yes

Local Support Description

Yes. DWR has engaged with the local elected officials and community members throughout the pre-feasibility study being conducted by the non-federal sponsor. Through this process, local elected officials and community members have expressed support for identifying needed investments to improve the reliability, robustness and resiliency of the Oroville Facilities and to improve flood management benefits.

8. Does the primary sponsor named in (2.) above have the financial ability to provide for the required cost share?

Yes

Primary Sponsor Letter of Support

(This is as uploaded, a blank page will show if nothing was submitted)

DWR ltr to USACE re Oroville WRDA August 26 2019.pdf

DEPARTMENT OF WATER RESOURCES

1416 NINTH STREET, P.O. BOX 942836
SACRAMENTO, CA 94236-0001
(916) 653-5791



August 26, 2019

Mr. R.D. James
Assistant Secretary of the Army (CW)
U.S. Army Corps of Engineers
108 Army Pentagon
Washington, DC 20310-1000

Subject: Proposal for Oroville Facilities Projects to be Included in the
February 2020 U.S. Army Corps of Engineers (USACE) Annual
Report to Congress for Future Water Resources Development

Dear Mr. James:

This letter documents the non-Federal support of the California Department of Water Resources (DWR) for the inclusion of a Section 7001 proposal for a new feasibility study authority for the Oroville Facilities located on the Feather River. DWR requests that the proposal be included in the Annual Report to Congress pursuant to Section 7001 of Public Law 113-12 and considered for inclusion in the next Water Resources Reform and Development Act.

This proposal has been submitted online as required at <http://www.wrrda7001proposals.us/> and meets all the criteria for inclusion in the Annual Report appendix. The five criteria set forth in Section 7001 of Public law 113-121 are met as follows:

(A) CRITERIA FOR INCLUSION IN REPORT—The Secretary shall include in the annual report only those feasibility reports, proposed feasibility studies, and proposed modifications to authorized water resources development projects and feasibility studies that—

(i) are related to the missions and authorities of the USACE;

The Oroville Facilities were developed as part of the State Water Project, a water storage and delivery system of reservoirs, aqueducts, power plants, and pumping plants. The main purposes of the Oroville Facilities is to store and distribute water to supplement the needs of urban and agricultural users in Northern California, the San Francisco Bay area, the San Joaquin Valley, and Southern California and flood management. The Oroville Facilities are also operated for power generation, water quality improvements in the Delta, as well as recreation and fish and wildlife enhancement. The United States Army Corps of Engineers participated in the original construction of the Oroville Facilities with a 22 percent cost share for flood management.

DWR is currently conducting the Oroville Dam Safety Comprehensive Needs Assessment which is scheduled to conclude in June of 2020. This assessment will identify potential water resource infrastructure projects that will bolster the integrity and resiliency of the Oroville Facilities to ensure public safety while enhancing the ability to deliver project purposes – including flood management.

Because these potential infrastructure projects will improve the ability of the Oroville Facilities to provide flood management, they are directly related to the mission and authorities of the USACE. Accordingly, the proposal for a Feasibility Study of the potential projects that will result from the needs assessment is appropriate for inclusion in the annual report.

- (ii) *require specific congressional authorization, including by an Act of Congress;*

Authorization for the USACE participation in the Feasibility Study will require an Act of Congress.

- (iii) *have not been congressionally authorized;*

The proposed Feasibility Study has not been already authorized by Congress.

- (iv) *have not been included in any previous annual report; and*

This proposal has not been included in a previous annual report.

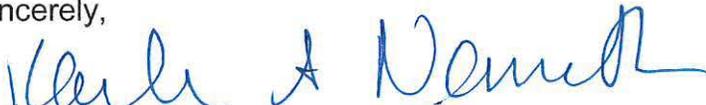
- (v) *if authorized, could be carried out by the USACE.*

USACE has the authority and capability to execute the proposed Feasibility Study upon authorization by Congress with full support of the non-Federal sponsor.

The cost estimate for the feasibility study is \$3 million with an estimated federal cost of \$1.5 million. The estimated non-Federal cost of \$1.5 million would be provided by DWR.

I look forward to partnering with USACE to develop this important and needed water resources infrastructure.

Sincerely,


Karla A. Nemeth
Director

cc: James C. Dalton, Director of Civil Works
Headquarters, U.S. Army Corps of Engineers
441 G Street NW
Washington, DC 20314

Colonel James J. Handura, Sacramento District Commander
U.S. Army Corps of Engineers
1325 J Street
Sacramento, CA 95814

Alicia Kirchner, Acting Deputy District Engineer for Programs and Project
Management
U.S. Army Corps of Engineers
1325 J Street
Sacramento, CA 95814

Felix Yeung, Policy Advisor for Strategic Planning
U.S. Army Corps of Engineers
1325 J Street
Sacramento, CA 95814

Map Document

(This is as uploaded, a blank page will show if nothing was submitted)

Oroville Facilities Vicinity Map.pdf

State Water Project Facilities and Service areas



DEPARTMENT OF WATER RESOURCES

1416 NINTH STREET, P.O. BOX 942836
SACRAMENTO, CA 94236-0001
(916) 653-5791



August 26, 2019

Mr. R.D. James
Assistant Secretary of the Army (CW)
U.S. Army Corps of Engineers
108 Army Pentagon
Washington, DC 20310-1000

Subject: Proposal for Oroville Facilities Projects to be Included in the February 2020 U.S. Army Corps of Engineers (USACE) Annual Report to Congress for Future Water Resources Development

Dear Mr. James:

This letter documents the non-Federal support of the California Department of Water Resources (DWR) for the inclusion of a Section 7001 proposal for a new feasibility study authority for the Oroville Facilities located on the Feather River. DWR requests that the proposal be included in the Annual Report to Congress pursuant to Section 7001 of Public Law 113-12 and considered for inclusion in the next Water Resources Reform and Development Act.

This proposal has been submitted online as required at <http://www.wrrda7001proposals.us/> and meets all the criteria for inclusion in the Annual Report appendix. The five criteria set forth in Section 7001 of Public Law 113-121 are met as follows:

(A) *CRITERIA FOR INCLUSION IN REPORT—The Secretary shall include in the annual report only those feasibility reports, proposed feasibility studies, and proposed modifications to authorized water resources development projects and feasibility studies that—*

(i) *are related to the missions and authorities of the USACE;*

The Oroville Facilities were developed as part of the State Water Project, a water storage and delivery system of reservoirs, aqueducts, power plants, and pumping plants. The main purposes of the Oroville Facilities is to store and distribute water to supplement the needs of urban and agricultural users in Northern California, the San Francisco Bay area, the San Joaquin Valley, and Southern California and flood management. The Oroville Facilities are also operated for power generation, water quality improvements in the Delta, as well as recreation and fish and wildlife enhancement. The United States Army Corps of Engineers participated in the original construction of the Oroville Facilities with a 22 percent cost share for flood management.

DWR is currently conducting the Oroville Dam Safety Comprehensive Needs Assessment which is scheduled to conclude in June of 2020. This assessment will identify potential water resource infrastructure projects that will bolster the integrity and resiliency of the Oroville Facilities to ensure public safety while enhancing the ability to deliver project purposes – including flood management.

Because these potential infrastructure projects will improve the ability of the Oroville Facilities to provide flood management, they are directly related to the mission and authorities of the USACE.

Accordingly, the proposal for a Feasibility Study of the potential projects that will result from the needs assessment is appropriate for inclusion in the annual report.

- (ii) *require specific congressional authorization, including by an Act of Congress;*

Authorization for the USACE participation in the Feasibility Study will require an Act of Congress.

- (iii) *have not been congressionally authorized;*

The proposed Feasibility Study has not been already authorized by Congress.

- (iv) *have not been included in any previous annual report; and*

This proposal has not been included in a previous annual report.

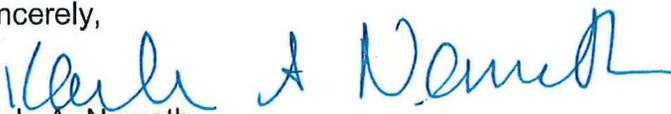
- (v) *if authorized, could be carried out by the USACE.*

USACE has the authority and capability to execute the proposed Feasibility Study upon authorization by Congress with full support of the non-Federal sponsor.

The cost estimate for the feasibility study is \$3 million with an estimated federal cost of \$1.5 million. The estimated non-Federal cost of \$1.5 million would be provided by DWR.

I look forward to partnering with USACE to develop this important and needed water resources infrastructure.

Sincerely,


Karla A. Nemeth
Director