

# FOLSOM DAM PROGRAM BRIEF

23 MAY 2023



US Army Corps  
of Engineers®



# FOLSOM DAM



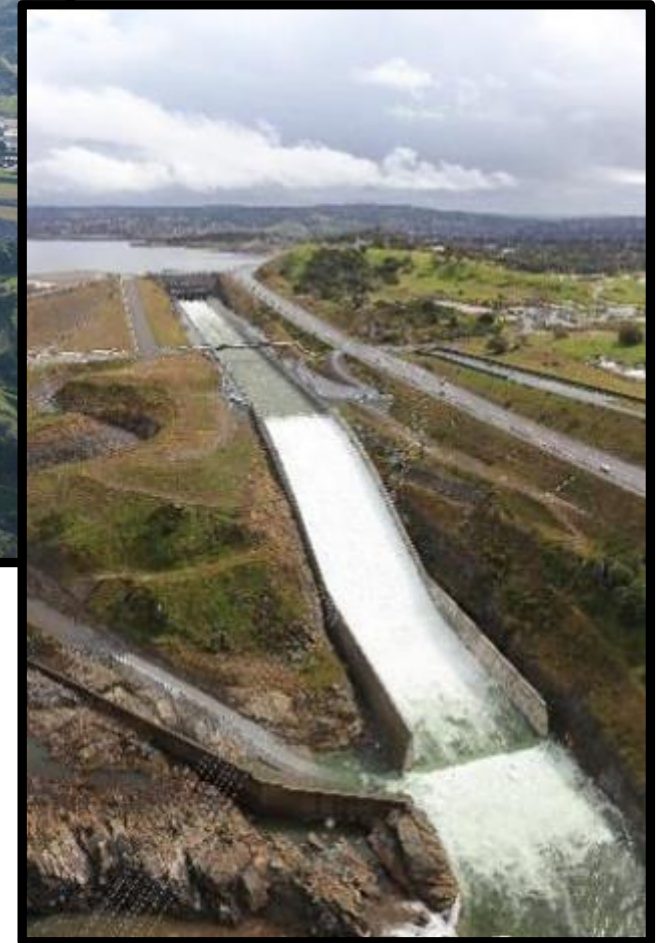
- Designed and built (1955) by USACE
- Operated and maintained by U.S. Bureau of Reclamation (USBR)
- Dam Safety is USBR's Responsibility
- USACE Responsible for Flood Operations via Water Control Manual



# USACE'S FOLSOM DAM PROGRAM



Folsom Dam Raise Project



Joint Federal Project (JFP)



# USACE'S DAM RAISE PROJECT ELEMENTS

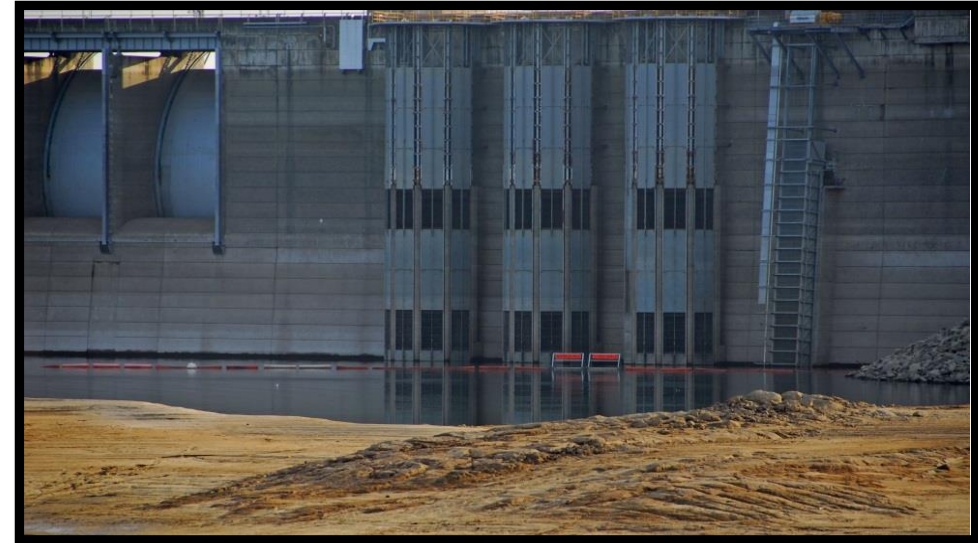


## Dam Raise

Add top seals/strengthen eight Gates  
Raise 5.1 miles of earthen structures 3.5 feet

## Ecosystem Elements

Temperature Control Shutters Modernization  
Downstream Ecosystem Restoration (not funded)



## Folsom Bridge

Post 9/11 dam roadway replacement  
Completed in 2009



# SIGNIFICANCE OF FOLSOM DAM RAISE



## Dam Raise Element

Sacramento region is one of the highest flood risk areas in the nation.

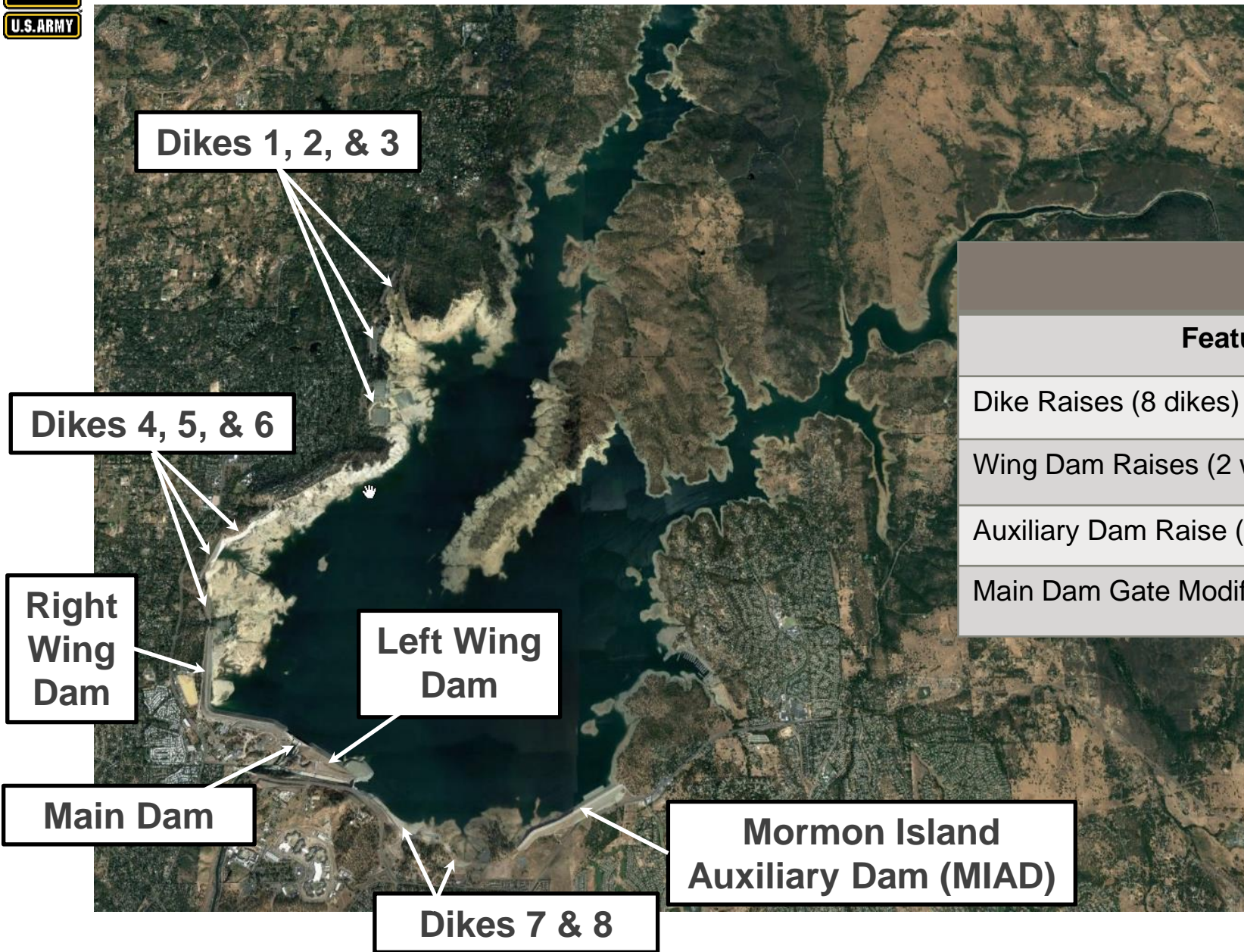
Dam Raise and JFP work in conjunction with other projects that function as a system to meet Flood Risk Management objectives.

Provides Flood Risk Management for:

- 500,000 people
- 125,000 structures
- \$58 billion in assets



# DAM RAISE ELEMENT



3.5-foot Raise	
Features	
Dike Raises (8 dikes)	2.4 miles
Wing Dam Raises (2 wing dams)	1.7 miles
Auxiliary Dam Raise (MIAD)	1 mile
Main Dam Gate Modifications	8 gates



# DAM RAISE ELEMENT



## Summary

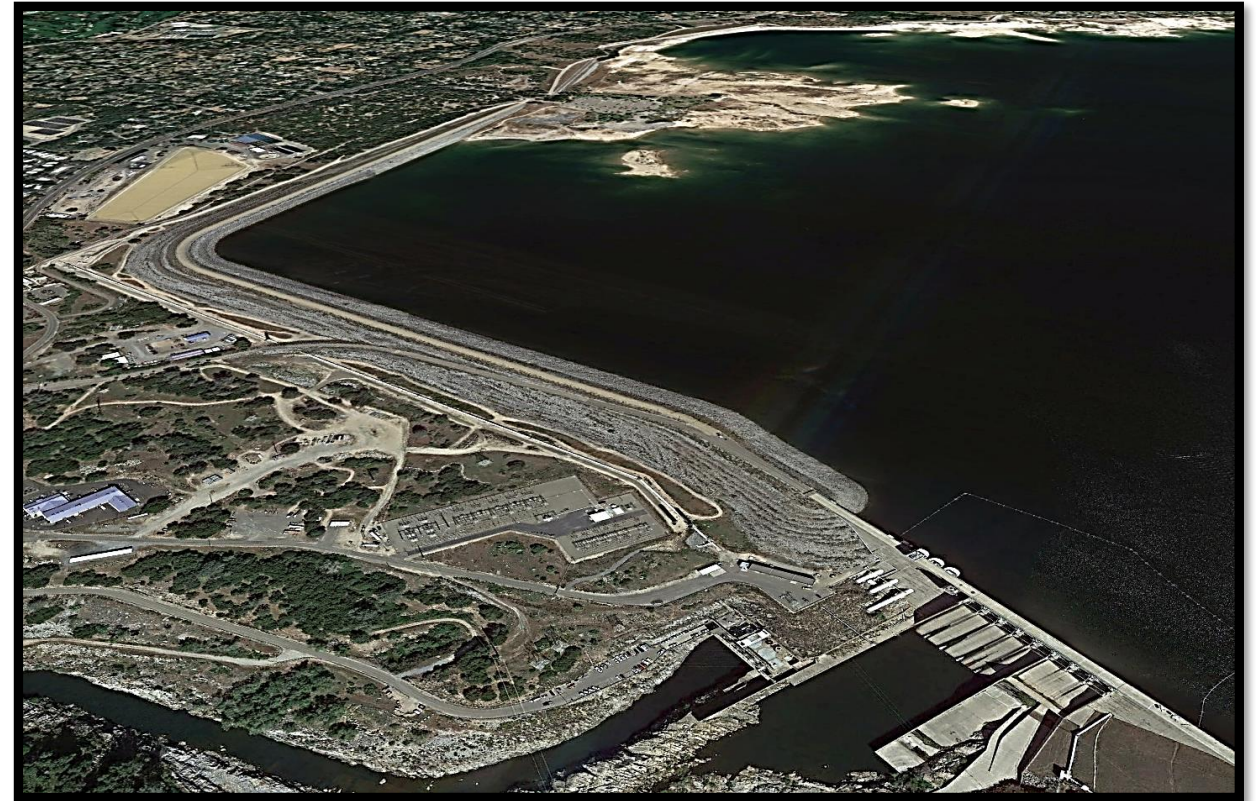
- Implemented by USACE in cooperation with USBR and partners: Department of Water Resources (DWR), Sacramento Area Flood Control Agency (SAFCA), and Central Valley Flood Protection Board (CVFPB)
- Increases physical storage by 42,000 acre feet

## Completed Work

- Dike 8 construction (2020)
- Main Dam/Wing Dam, Dikes 1-6, and MIAD designs (2022-2023)

## Remaining Work

- Complete Dike 7 design (2023)
- Construct Dikes 1-6 (2023-2026)
- Construct Main Dam/Wing Dams (2023-2027)
- Construct MIAD (2023-2024)
- Construct Dike 7 (2024-2025)
- Update Surcharge Operations component of the Water Control Manual (2022-2026)



## Schedule

- Target completion date: July 2027

## Budget Summary

- Estimate at Completion: \$474 million
- Funded through completion



# DIKE 8 CONSTRUCTION COMPLETE







# TEMPERATURE CONTROL SHUTTERS ELEMENT

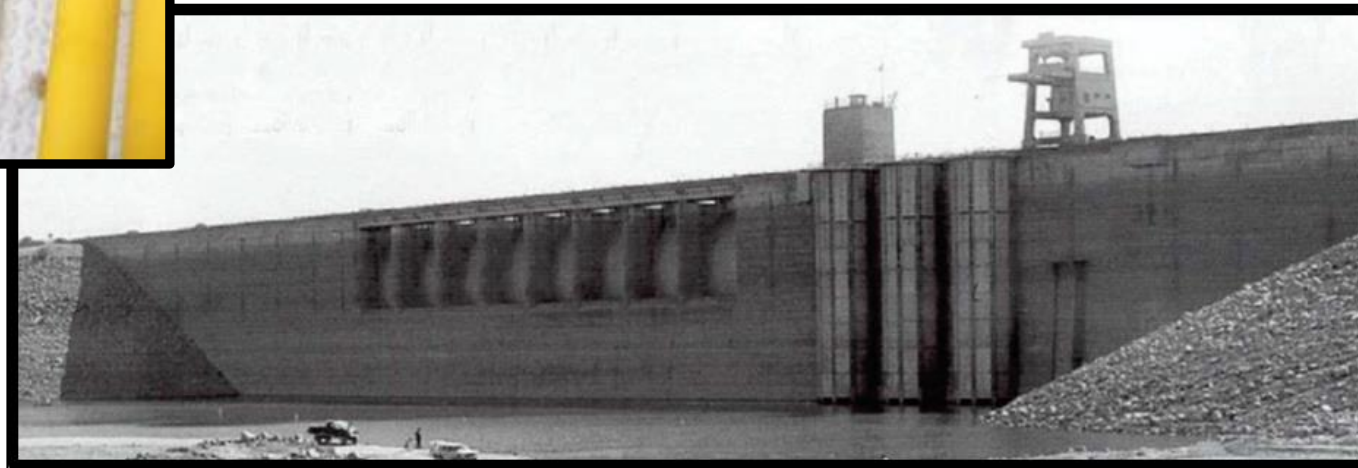


Currently TCS operated manually:

- Requires a crew of three for 8–12 hours to adjust all shutter groups
- Changes must be scheduled 2 weeks in advance; the current configuration is changed 3–4 times per year.

TCS project element:

- Modernizes TCS to allow refined, flexible control of water discharge temperature to support downstream salmonid populations year-round
- Is implemented by USACE in cooperation with USBR and SAFCA (project partner)





# TEMPERATURE CONTROL SHUTTERS ELEMENT



## Summary

- Implemented by USACE in cooperation with USBR and project partner: Sacramento Area Flood Control Agency (SAFCA)

## Remaining Work

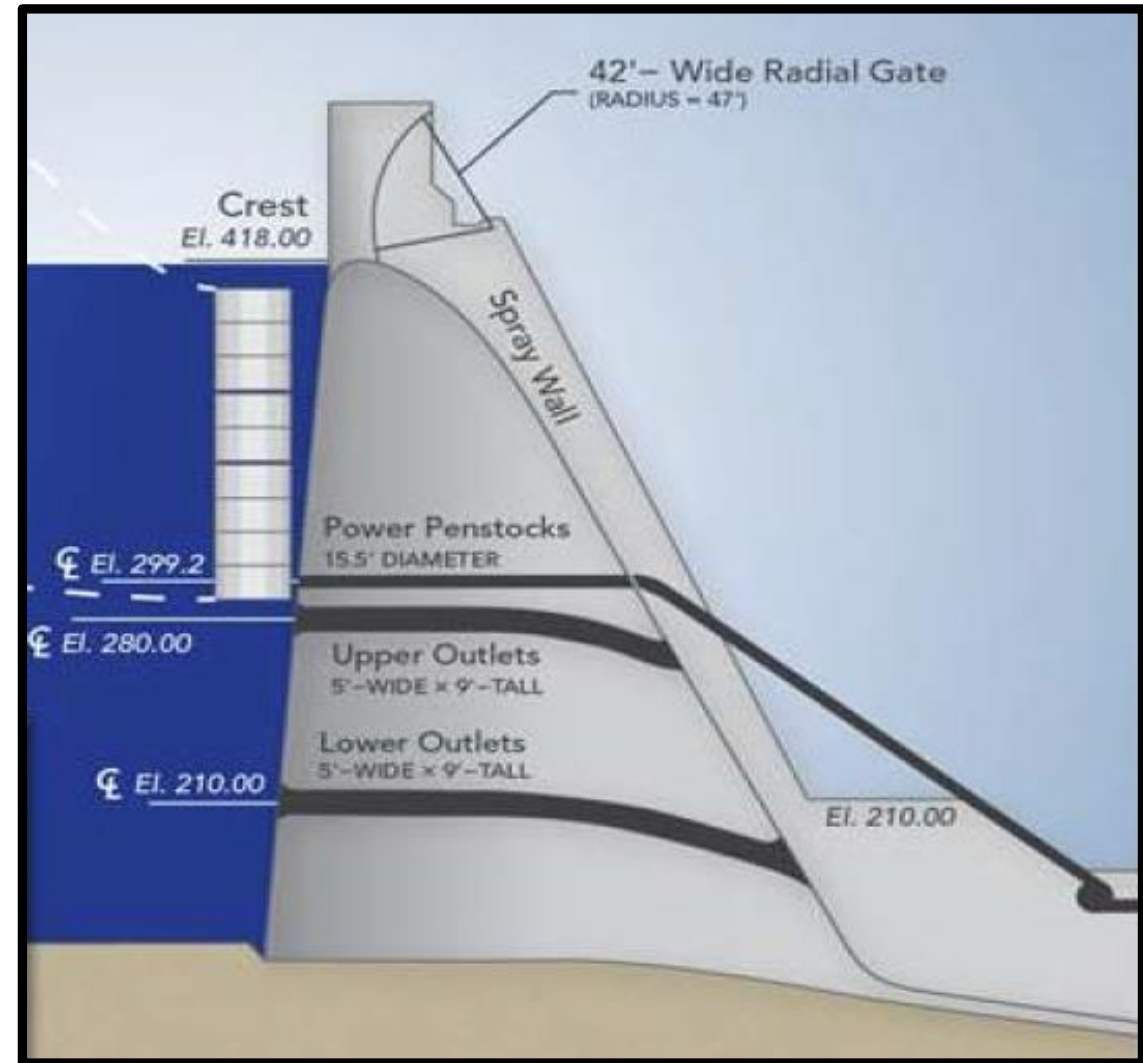
- Complete design (2025)
- Construction (2025-2028)

## Schedule

- Target completion date: 2028

## Budget Summary

- Estimate at Completion: \$63.6 million
- Currently funded through completion





# FOLSOM DAM PROGRAM BRIEF



**Discussion/Questions**