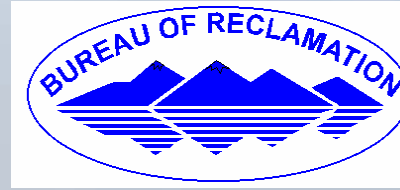




US Army Corps  
of Engineers



## Information Meetings

# Flood Damage Reduction and Dam Safety Improvement Projects

## Folsom Dam and Reservoir

April 4 - 5, 2007

## Purpose of the Meeting

- Information. Promote awareness among neighboring communities of the scope of flood control, dam safety and other projects planned or underway at Folsom Dam and Reservoir over the next 10 – 15 years
- Communication. Listen, understand and consider community interests as an essential element in completing these critical projects

# Flood Control and Dam Safety Evaluations

- Flood control. Data from actual storm events confirms that additional flood protection is necessary at Folsom Dam
- Dam safety. Comprehensive facility review in 2000 identified potential risks:
  - Hydrologic: potential overtopping of dams and dikes during a major storm event
  - Seismic: potential sliding and/or breaching in the event of an earthquake
  - Static: potential seepage and piping

## Joint Agency Objectives

- Design and construct a Joint Federal Project for Folsom Dam that expedites action by Reclamation and Corps to:
  - Provide 200-year or better flood protection
  - Address the dam safety hydrologic risk (pass Probable Maximum Flood)
- Complete other Dam Safety (DS) improvements
- Complete other Flood Damage Reduction (FDR) improvements

## Joint Federal Project

- Auxiliary spillway comprised of:
  - Concrete lined approach channel
  - Control structure: six submerged tainter gates at invert elevation 368' MSL
  - 2700' x 170' concrete lined spillway chute
  - Concrete lined stilling basin
- Gate dimensions, invert elevation or spillway may be optimized during final design to maximize performance and/or reduce costs



EI 368



## Additional FDR and DS Improvements

- Other Flood Damage Reduction-only projects (Corps)
  - 3.5' raise of the embankments
  - Modification or replacement of emergency spillway gates
- Other Dam Safety-only seismic projects (Reclamation)
  - Mormon Island Auxiliary Dam (MIAD)
  - Main concrete structure
- Other Dam Safety-only static projects (Reclamation)
  - Dikes 4 – 6
  - Left and Right Wing Dams
  - MIAD

## NEPA/CEQA Processes

- Define purpose / need for the Federal/State actions
- Public scoping
- Draft Environmental Impact Statement/  
Environmental Impact Report (EIS/EIR)
  - Public Meetings
  - Formal comment period required
- Final EIS/EIR
  - Minimum 30-day review period
  - Agencies will accept and consider comments
- Records of Decision (ROD)



# Final EIS/EIR: Project Alternatives

## Alternatives Retained

- Gated auxiliary spillway/3.5' raise (preferred alt)
- Fuseplug auxiliary spillway/no raise

## Alternatives Eliminated

- 17' raise alternative
- 7' raise, 4' raise and tunnel options

## Final EIS/EIR: No Impacts

- Hydrology
- Water Supply, Hydropower
- Land Use, Planning, and Zoning
- Population and Housing
- Indian Trust Assets
- Environmental Justice
- Agricultural Resources

## Recreation Impacts

- No impacts to: Granite Bay, Brown's Ravine, Rattlesnake Bar, Peninsula Campground, Doton's Point, Beek's Bight recreation areas
- Some impacts to:
  - Folsom Point recreation area and adjacent trails
  - Beal's Point recreation area and adjacent trails
  - Brown's Ravine trails

## Recreation Mitigation Strategies

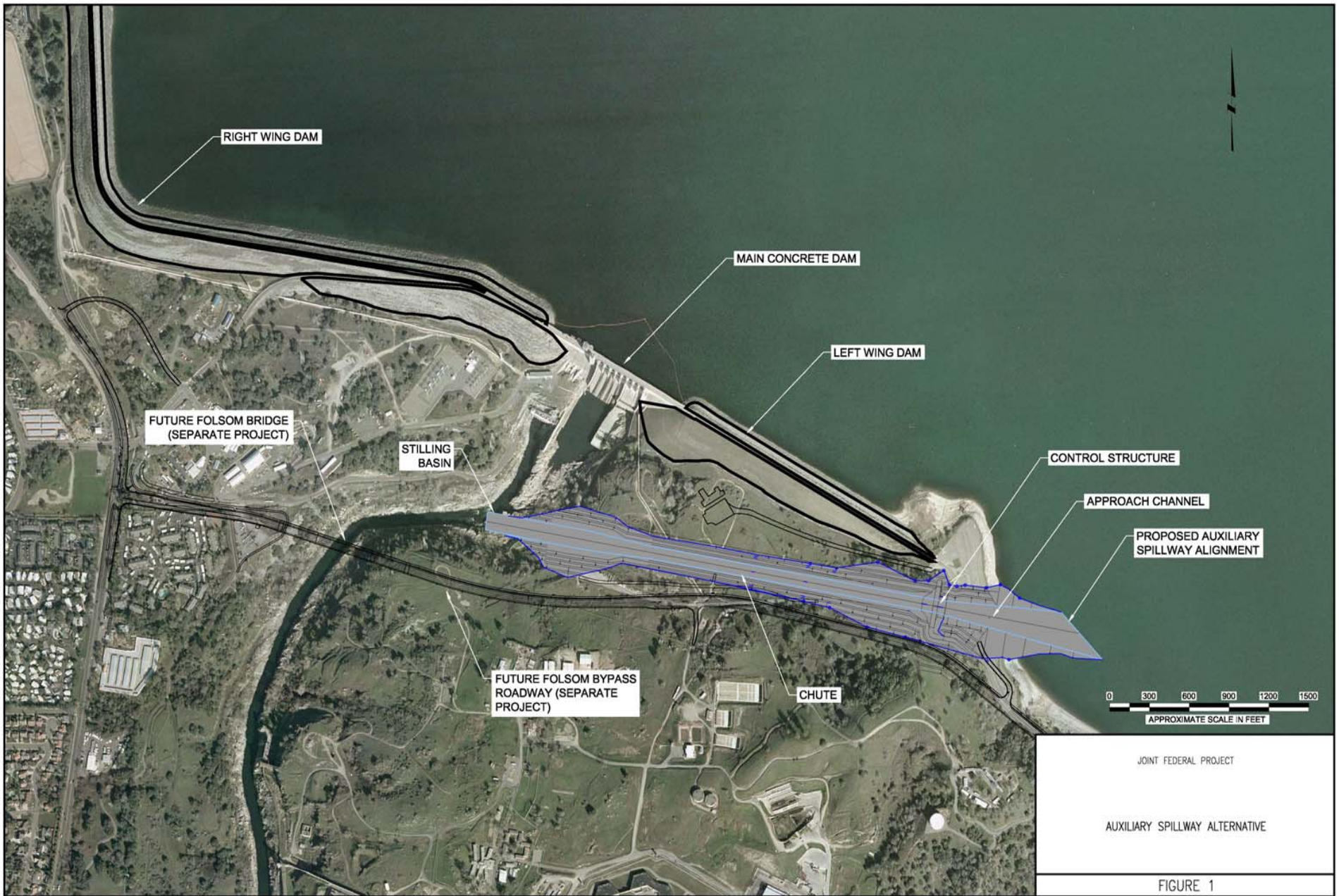
- Construction planning will not assume closure of any recreation facility
- Nearly continuous access to all recreation areas throughout construction
- Exceptions may include:
  - Temporary closure to construct access features
  - Potential extended closures for unforeseen project circumstances
- To the extent practicable: Consolidate materials processing/batch operations at Overlook and Left Wing Dam areas

# Recreation Mitigation Measures

- Folsom Point:
  - Grade separation at intersection of haul route/access road
  - Staging area moved off developed area
  - Eliminated batch or materials processing ops
- Beal's Point:
  - Reconfigure access road
  - Staging area moved off developed area
  - Minimize traffic
- Trails.

## Mitigated Impacts

- Air quality, water quality, groundwater
- Aquatic Resources
- Terrestrial Vegetation and Wildlife
- Soils, Minerals, and Geological Resources
- Visual Resources
- Traffic and Circulation
- Noise
- Cultural Resources
- Public Services and Utilities
- Public Health and Safety



## Construction Sequence (FY)

Feature	Lead	07	08	09	10	11	12	13	14	15	16	17	18
Dam Safety	Recl												
JFP Spillway Interim Excavation	Recl												
JFP Spillway Final Grade Excavation	Recl/ USACE												
Construct JFP Auxiliary Spillway	USACE												
FDR 3.5' Raise	USACE												
FDR Gate Mods	USACE												



# Public Involvement

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- NEPA Process
- Information Meetings
- Long-term dialogue