Temperance Flat Project Facilities

**Dam**
- Roller Compacted Concrete (RCC)
- 665 ft tall

**Reservoir**
- 1.33 MAF total
- 1.26 MAF net

**Powerhouse**
- 160 MW
- 6,000 cfs

A 1930 study found Temperance Flat Dam site superior for water storage but recommended Friant Dam due to cost and project purposes planned at the time.
Project Facilities

- **Dam and Reservoir**
  - RCC Dam
  - Reservoir Clearing
  - Fine Gold Creek Bridge
  - Contractor Use Areas
  - Haul Roads
  - Permanent Access Roads

- **Diversion**
  - Embankment Cofferdams
  - Diversion Stop-logs

- **Spillway**
  - RCC Spillway
  - RCC Spillway Bridge

- **Outlet Works & Power Features**
  - Diversion and Outlet Tunnel & Portals
  - Low Level Intake Structure
  - Powerhouse, Valve House, & Outlet
  - Transmission
  - Haul Roads
  - Permanent Access Roads
  - Powerhouse Access Bridge
  - Works Chute

- **Affected Infrastructure**
  - Kerckhoff Powerhouses Decommissioning
  - Utilities
  - Transmission Line Relocation
  - Recreational Facilities

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Reclamation Performed Constructability and Cost Reviews for:

- Value Planning
- Value Engineering
- Design, Estimating and Construction (DEC)
Operations Preserve Friant Division Capabilities

Madera Canal Deliveries

Millerton Lake

Friant-Kern Canal Deliveries

Millerton Spills

Inflow to Storage Accounts

Temperance Flat Reservoir

Temperance Flat operations preserve Friant Division Capabilities

Storage account management will be through a new entity or partnership
Combined Storage of Millerton Lake and Temperance Flat

Storage Space Used to Preserve Friant Division Contract Capabilities

Exchanges

Millerton Spills

Temperance Flat Reservoir Storage Accounts

Madera Canal

San Joaquin River Releases

Friant-Kern Canal
Exchange Opportunities

Water released to the San Joaquin River, including Friant's SJR Restoration Flows, can be delivered to San Luis Reservoir in exchange for water stored in Temperance Flat.

Water supplies in San Luis Reservoir be delivered to Friant water users, either directly or through partners, in exchange for moving offset deliveries into Temperance Flat.

Eastside water supplies can meet Friant schedules, in exchange for moving offset deliveries into Temperance Flat.

The Delta

San Luis Reservoir

Federal Pumps (Jones)

State Pumps (Banks)

Madera Canal

Friant-Kern Canal

Delta-Mendota Canal

California Aqueduct

Reverse Flow

Friant Division lands

Cross Valley Canal

To S. California
Project Timeline

PRE-CONSTRUCTION

- Congressional Authorization and Appropriation
- Scoping & Project Setup
- Environmental Compliance & Permitting
- Data Collection, Design, and Cost Estimating
- Land & Rights Acquisition
- Definite Plan Report
- Construction Contracting & Acquisition
- Mitigation Construction

Feasible Plan

Draft CEQA Document

CONSTRUCTION

- Site Access & Staging
- Cofferdam Material Processing
- In-water Cofferdam Work
- Diversion Tunnel
- Complete Cofferdams
- Powerhouse/Valvehouse
- Intake Structure
- Tunnel Connection
- Dam Material Processing
- Foundation Preparation
- RCC Arch Dam
- Reservoir Clearing
- Facilities Decommissioning and Relocation
Storage Opportunities

**Temperance Flat RM 274**

1,260 TAF New Storage (985 ft)

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* Preliminary Data

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* San Joaquin River Mile

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Elevation (feet)

- Millerton Lake
- Kerckhoff Lake
- Kerckhoff Powerhouse
- Kerckhoff No. 2 Powerhouse

San Joaquin River Mile

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Frandt Division Allocations and Flood Releases (TAF)

- Flood Releases
- RWQ
- Class 2
- Class 1


* Preliminary Data