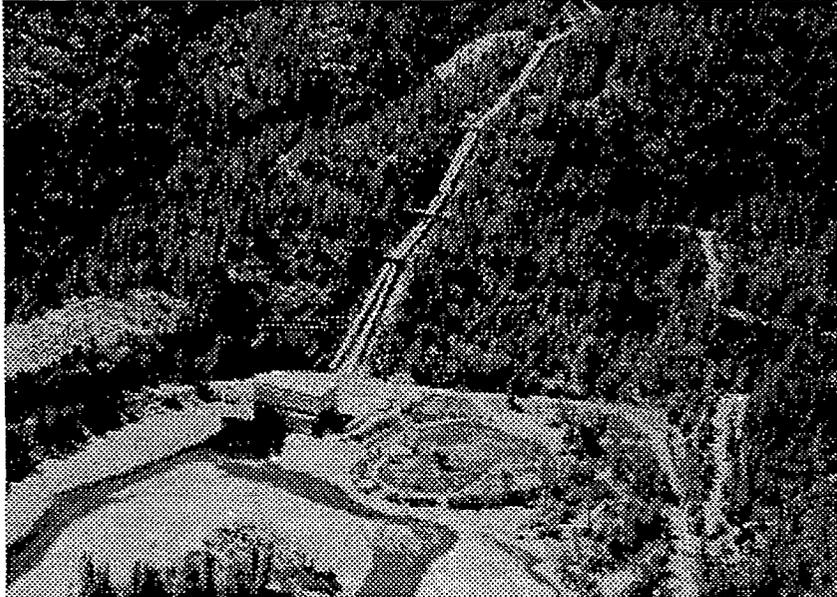


## JUDGE FRANCIS CARR POWERPLANT



### Judge Francis Carr Powerplant

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**Plant Contact:** Mike Ryan  
Area Manager, Northern California Area Office

**Plant Address:** Judge Francis Carr Powerplant  
French Gulch, CA

**Telephone Numbers:** Phone: (916) 275-1554  
Fax: (916) 275-2441

**E-Mail Address:** [mryan@mp.usbr.gov](mailto:mryan@mp.usbr.gov)

**Reclamation Region:** Mid-Pacific

**NERC Region:** Western Systems Coordinating Council, California-Southern Nevada Power Area

**PMA Service Area:** Western Area Power Administration, Sierra Nevada Region

**Project Authorization:** Funds for construction of the initial features of the Central Valley Project were provided by the Emergency Relief Appropriation Act of 1935 (49 Stat. 115). The Secretary of the Interior authorized the project and the President approved it on December 2, 1935.

The Trinity River Division was authorized by Public Law 386, 84th Congress, 1st Session, approved August 12, 1955.

**Project Purposes:** The Central Valley Project, one of the Nation's major water conservation developments, extends from the Cascade Range on the north to the semiarid but fertile plains along the Kern River on the south. Initial features of the project were built primarily to protect the Central Valley from crippling water shortages and menacing floods. New project units were built to provide water and power to match the continued growth of the State.

Although developed primarily for irrigation, this multiple-purpose project also provides flood control, improves Sacramento River navigation, supplies domestic and industrial water, generates electric power, conserves fish and wildlife, creates opportunities for recreation, and enhances water quality.

**Plant Location:** Judge Francis Carr Powerplant is located on Clear Creek in Shasta County, California, at the outlet of Clear Creek Tunnel on the northwestern extremity of Whiskeytown Lake.

**Plant Purpose:** Judge Francis Carr Powerplant is a peaking plant which is dedicated first to meeting the energy requirements of the project facilities. The remaining energy is marketed to various preference customers in northern California.

**Plant Facts:** The Judge Francis Carr Powerhouse has two generators with a total capacity of 154,400 kilowatts.

**Plant History:** Judge Francis Carr was originally designated Clear Creek Powerplant. The units were uprated in 1984.

**Present Activities:** Generation of power from water exported from the Trinity River Basin.

**Future Planned Activities:** None

**Special Issues:** Plant power production has a degree of fluctuation from tunnel wall organic and mineral coating. Trinity County has first preference to the power benefit for the Central Valley Project from the Judge Francis Carr Powerplant.

**River:** Clear Creek Tunnel

**Plant Type:** Conventional

**Powerhouse Type:** Above Ground

**Turbine Type:** Francis

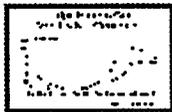
**Original Nameplate Capacity:** 143,680 kW

**Installed Capacity:** 154,400 kW

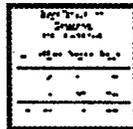
**Year of Initial Operation:** 1963  
**Age:** 34 years  
**Net Generation: (FY 1996)** 572,514,924 kWh  
**Rated Head:** 535 feet  
**Plant Factor: (FY 1996)** 42.3 percent  
**Remotely Operated:** Yes  
**Production Mode:** Peaking



Fiscal Year Net Generation



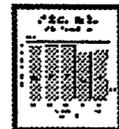
Monthly Net Generation



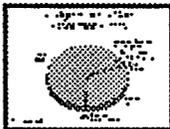
Generators



Workforce



Wholesale Firm Rate



Operation Costs



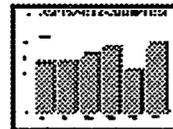
Maintenance Costs



O&M Costs



Production Costs



Availability Factor