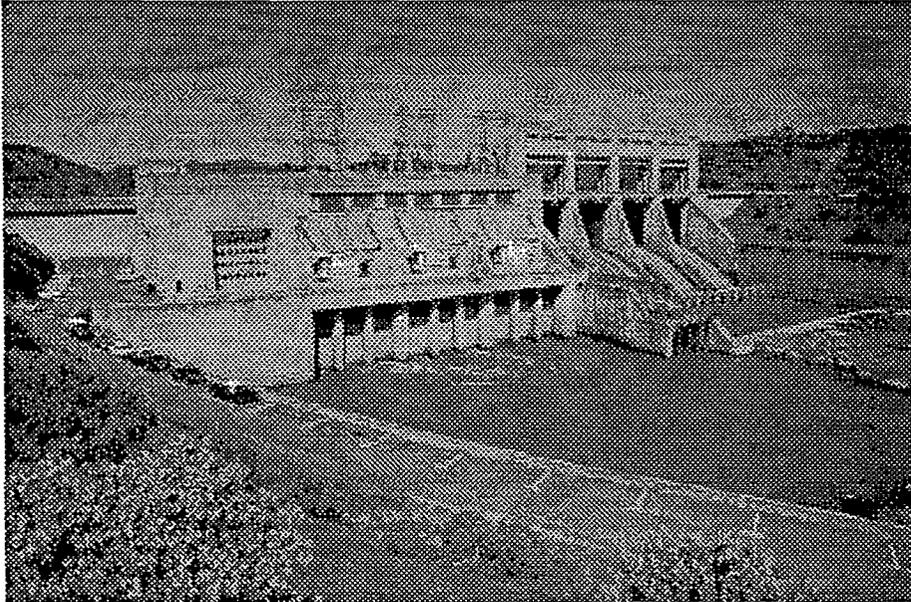


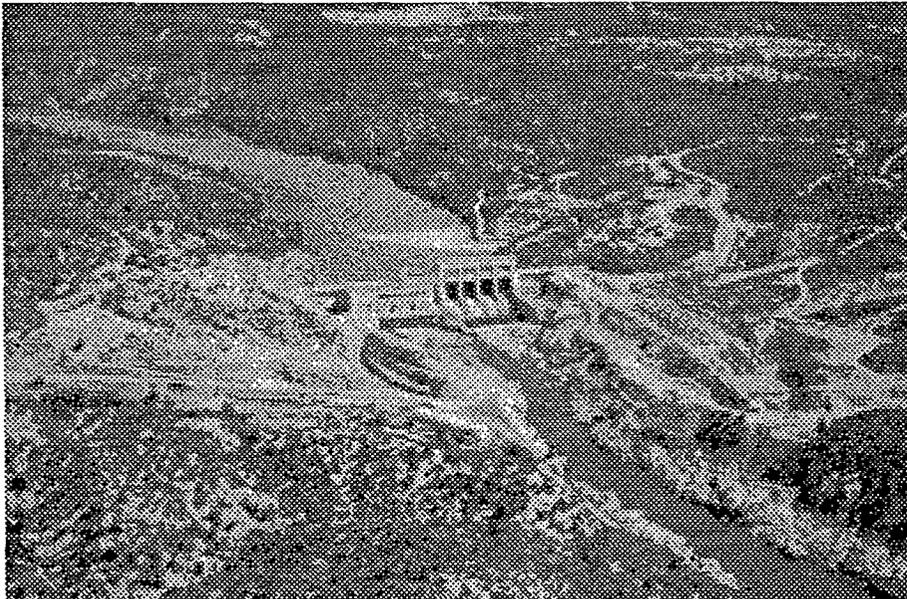
Bureau of Reclamation's Power Program

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KESWICK POWERPLANT



Keswick Powerplant



Keswick Dam and Powerplant

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

Plant Address: Keswick Powerplant
Redding CA 96003

Telephone Numbers: Phone: (916) 241-1246
Fax: (916) 275-2441

E-Mail Address: 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: Keswick Powerplant is located on the Sacramento River in Shasta County, California, 9 miles downstream from Shasta Dam about 4 miles west of Redding, California.

Plant Facts: Keswick Dam is a concrete gravity structure 157 feet high and 20 feet wide at the crest. The crest is 1,046 feet long. The Keswick Powerplant, located at Keswick Dam, has three generating units with a total capacity of 117,000 kilowatts.

Plant Purpose: Keswick Powerplant is a run-of-the-river 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 History: Units were uprated in 1992.

Present Activities: Normal operations. Maintain and regulate river releases.

Future Planned Activities: None

Special Issues: Plant augments local loads during system disturbances.

River: Sacramento River

Plant Type: Conventional

Powerhouse Type: Above Ground

Turbine Type: Francis

Original Nameplate Capacity: 75,000 kW

Installed Capacity: 117,000 kW

Year of Initial Operation: 1949

Age: 48 years

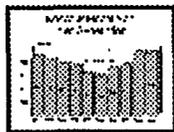
Net Generation: (FY 1996) 464,105,460 kWh

Rated Head: 78 feet

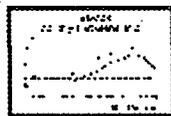
Plant Factor: (FY 1996) 45.3 percent

Remotely Operated: No

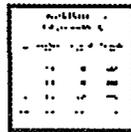
Production Mode: Intermediate



Fiscal Year Net Generation



Monthly Net Generation



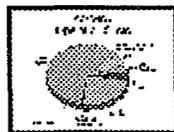
Generators



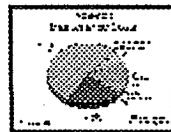
Workforce



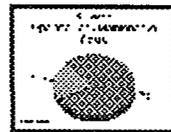
Wholesale Firm Rate



Operation Costs



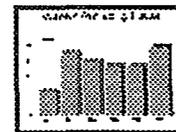
Maintenance Costs



O&M Costs



Production Costs



Availability Factor