

PRIEST
RAPIDS
DEVELOPMENT

Under Construction by
**PUBLIC UTILITY DISTRICT
OF GRANT COUNTY**
EPHRATA, WASH.

GENERAL INFORMATION

The Priest Rapids Project consists of two dams, Priest Rapids, now under construction, and Wanapum, approximately the same size as Priest Rapids, to be constructed 18 miles upstream from Priest Rapids.

Twelve public and private electric utilities of the Northwest have signed contracts with the Grant County Public Utility District for the purchase of 63.5 percent of the power from the two dams. The Grant County PUD is retaining 36.5 percent of the power for its own use.

The Priest Rapids Dam is financed by 49-year revenue bonds to be retired through the sale of power. No tax monies or government appropriations are being used in its construction.

Power from the Priest Rapids Project will be integrated with the Northwest Power Pool.

The Harza Engineering Company of Chicago is the designing and supervising engineering firm for the Project.

Construction was started in July, 1956, by Merritt-Chapman & Scott, New York, under a general contract for \$91,880,625.

The contractor has 1900 calendar days from July 9, 1956 in which to complete the job.

Provision will be made for the installation of a future navigation lock to be built by the U.S. Corps of Engineers, when monies are appropriated by Congress.

STATISTICAL DATA

Location

On Columbia River, 24 miles below Vantage,
200 miles downstream from Grand Coulee Dam.

Type

Reinforced concrete and earth-fill structure.

Size of Dam

Total overall length - feet	10,138
Reinforced concrete - feet	2,427
Earthen Embankments - feet	7,711
Maximum height from deepest point of excavation - feet	178
Head - feet (approximate)	79

Spillway

Length - feet	1,142
Number of gates	22
Type of gates - Tainter	
Size of gates - feet	40 x 50

Powerhouse

Length - feet	1,025
Base width - feet	197
Number power units initially	10
Turbines, type - Kaplan	
Horsepower per unit	114,000
Revolutions per minute	85.7
Nameplate rating per generator at 0.95 PF - KW	78,850
Total Capacity - KW	788,500

Fish Facilities

Number of fish ladders	2
------------------------	---

Reservoir

Square miles	13
Drainage area - square miles	95,500

General Quantities (estimated)

Earth and rock excavation - cubic yards	2,910,000
Earth and rock fill - cubic yards	3,105,000
Concrete - cubic yards	844,000
Forms - square feet	4,137,000
Forms, curved - square feet	416,000
Cement - barrels	800,000
Pozzolans - tons	44,000
Steel, reinforcing - tons	23,000
Steel, miscellaneous - tons	20,000

PRIEST RAPIDS NAME

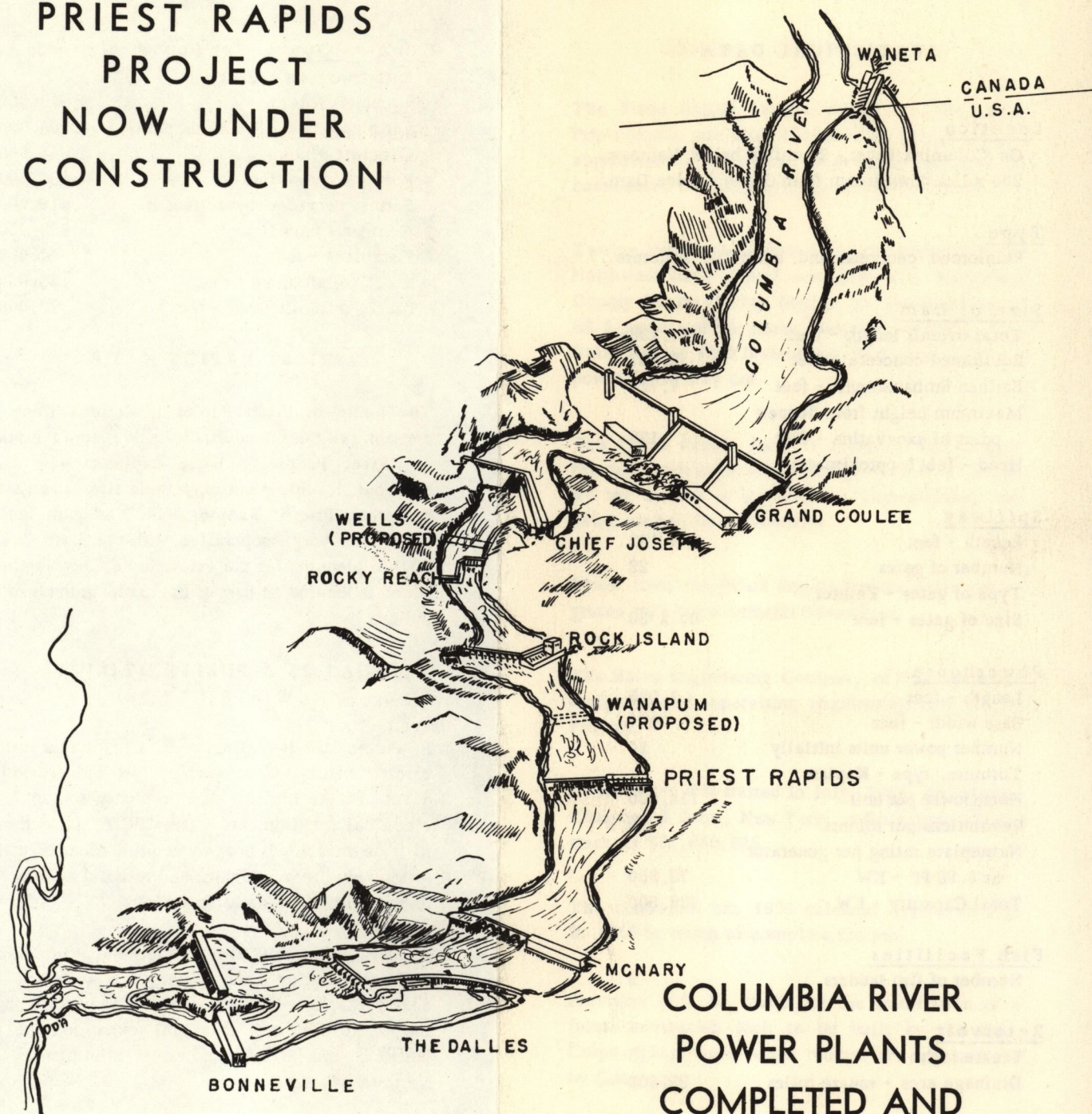
The name of Priest Rapids is derived from the ancient religious leaders of the Wanapum Indians, or "River People." Early explorers saw these religious leaders practicing their rites and named the area "Priests" Rapids. The Wanapum Indians have been very cooperative with the Grant County PUD in planning for the Priest Rapids Development, which is located on part of the camp grounds of the Indians.

WHAT IS A PUBLIC UTILITY DISTRICT?

A Public Utility District is a consumer owned electric utility, sanctioned by law and created by a vote of the citizens of the county to supply its electrical requirements. The "PUD" has authority to issue revenue bonds, to acquire electric utility systems by direct purchase, and to build and operate its own electric generating systems.

The Grant County PUD is building the Priest Rapids Project to insure Grant County an adequate and continued power supply to care for the future population growth and industrial expansion of the District, and to add additional kilowatts to the Northwest Power Pool.

PRIEST RAPIDS
PROJECT
NOW UNDER
CONSTRUCTION



COLUMBIA RIVER
POWER PLANTS
COMPLETED AND
UNDER CONSTRUCTION