

Know Your Bonneville Dam

SPILLWAY DAM

The spillway is designed to pass a flood of 1,600,000 second-feet, which is 37 per cent greater in volume than the flood of 1894. Protection against the destructive effect of the falling water is secured by special design of the overflow section on the deck and a double row of concrete baffles and by providing a wide concrete apron at the toe of the dam. The piers have been designed to withstand direct and side pressure resulting from alternate open and closed gates, and each contains a structural steel skeleton to support the gate guides. The steel gates the structural steel riveted construction, with roller bearings. Each gate is in two sections with special lifting and latching mechanisms so that either the upper half or the whole gate may be moved at one time. The gates are operated by either of the 3560-ton gantry cranes traveling on top of the dam.

POWERHOUSE

The powerhouse structure, situated near the lower end of Bradford Island, has been built to receive six hydroelectric generating units of 43,200 kilowatts each and a 4,000 kilowatt service unit. It was founded on hard andesite rock which was excavated to a maximum depth of 58 feet below sea level. Space is available for the addition of four more units at the north end of the present powerhouse at some future date.

The initial installation of two of the main generating units and the service unit is complete.

The main turbines are of the Kaplan or propeller type, each with five blades the pitch of which is automatically adjusted by a governor.

The head of water available at the powerhouse varies from 30 feet to 66 feet, depending upon the river stage.

The Kaplan adjustable blade type of turbine has been selected as the type best suited to the conditions at Bonneville. This type occupies less space per horsepower which is a most important factor where space may limit future development, and suffers less loss of power at reduced heads than any other type. Each main turbine has a 60,000 h. p. capacity at 50-foot head; the water capacity of each is about 12,000 second-feet (the average flow of the Columbia River at the site over a 55-year period is 211,000 second-feet); the diameter of the draft tube throat is 23 feet, and the diameter of the turbine shaft 40 inches.

Main generators are of the vertical shaft type with direct-connected exciters and pilot exciters. The rating is 43,200 kilowatts, .9 power factor, 13,800 volts, 3 phase, 60 cycles, 75 r. p. m.

The main transformers are located on the upper deck of the powerhouse and step the voltage up from 13,800 to 110,000 volts for transmission. The switching equipment is located on the roof of the building.

BONNEVILLE

(By Jean Bradley)

Roger I. Neiss drove in to Portland to see Mrs. Neiss and his new daughter.

Mr. and Mrs. Maynard Cannon and son, Larry, spent the week-end in Portland.

Wanda May and Jean Hawkins are spending a week in Portland visiting their grandmother.

Mrs. Clark Bogart and Mrs. Stanley Sporseen spent Tuesday in Portland.

Mr. and Mrs. Marshall Russell made a trip to Timberline Lodge Sunday.

Mr. and Mrs. LeRoy Hansen and daughter, Sandra Lee, drove to Portland this week.

Mr. and Mrs. Snyder and two children are moving from Eagle Creek to Glendale this week.

Mr. and Mrs. Roy Lush have as their guest their niece, Nancy, of Portland. Roy Lush, Jr., has gone to Boy Scout camp for two weeks.

Ernest Cooper and Miss Viva Jones were married the 16th of July. They will make their home at Bonny Villa.

Mr. and Mrs. L. J. Hawkins of Portland spent Sunday with Mr. and Mrs. John Woffendon.

Mr. and Mrs. Lee Hostetter have returned from a trip to Jackson Hole and Yellowstone Park.

Mr. and Mrs. John Woffendon and Dr. and Mrs. D. A. Kistin spent Monday night in Portland to hear the Summer Symphony and Richard Crooks.

Gloria Bradley is spending the week in Portland.

Mrs. Fred Downing and children were Portland visitors Thursday.

Mrs. Roy Scheufle and Mrs. D. A. Kistin and Mrs. Laurence Bixby spent last Thursday in Portland.

Mr. and Mrs. Arthur Bray have

returned from their vacation.

John Walter and Richard Ake of Portland are spending a few days with Mr. and Mrs. John Woffendon.

VANCOUVER POWER LINE

(Continued From Page One)

part of Harmony and East Mill Plain and through the Burton district.

Appraisers have been in the field for some time discussing property values with land owners, but so far no formal negotiations have been reported.

Towers 1000 Feet Apart

The south line will be approximately 90 feet in from the southern boundary of the right of way, and the north line will be the same distance in from the north boundary. Steel towers will be approximately 1000 feet apart, although it is understood this may vary where high spots are available for the towers and across valleys.

One million, eight hundred and twenty-five man-hours of labor have been provided by the WPA project for clearing the 76 mile right of way from Vancouver to Bonneville and Bonneville east to Condit. The WPA project will also build the necessary roads and bridges for patrolling and maintaining the line. There will be 116 timber bridges to permit access to the right of way for construction and maintenance purposes. This work will start as soon as land is acquired. It is understood that clearing will be done in the moun-

tainous areas this fall before winter snows fall.

Two weeks ago Administrator J. D. Ross called for bids on 240 miles of wire for the twin circuit. No WPA funds will be used for acquiring right of ways. This land will be purchased from the \$3,500,000 Bonneville appropriation granted by Congress last session.

The Public Works administration this week appropriated \$10,750,000 for transmission lines and substations. Lines involved will run from Vancouver to Kelso, Kelso to Aberdeen, Vancouver to Eugene, Bonneville to Coulee and Bonneville to The Dalles. The Bonneville-Vancouver line was provided for by congress.

Construction of the main transmission line through this vicinity will mean a great amount of work for local labor. In addition to the WPA work, a lot of skilled and semi-skilled labor on a non-relief basis will be required for erecting the towers and stringing the lines. The line construction will be let by contract.

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