

the Puntledge River plant, the dismantling of the 12,000 h.p. 25-cycle plant having been completed; a single unit of 35,000 h.p. driving a 30,000-kva. generator will be installed, with initial operation probably late in 1954. Contracts have been awarded and work commenced on development on the Spillimacheen River to consist of three units with a total capacity of 5,500 h.p. for 1955 operation, to serve the upper Columbia Valley district. The Commission's Whatshan plant of 33,000 h.p. was badly damaged by two devastating landslides during August and the station will be closed for an indefinite period. Diesel installations of 760 kw. at Smithers, 600 kw. at Vanderhoof, 800 kw. at Williams Lake, and 675 kw. at Tofino were completed. Transmission lines built during the year include about 100 miles of 63-kv. line from Vernon to Kamloops via Salmon Arm, with a number of intermediate substations, 22 miles of 60-kv. line from Nanaimo to Parksville, and 8 miles of 132-kv. line from Nanaimo to Harmac.

The British Columbia Electric Company Limited continued construction towards the installation of a fourth unit of 62,000 h.p. in its Bridge River plant for 1954 operation. The raising of the La Joie storage dam to provide increased reservoir capacity also was continued. Surveys were made covering a proposed development on Seton Creek to further utilize the water diverted through the Bridge River plant; active construction will begin in 1954 and it is planned to have the single unit of 58,000 h.p. driving a 42,000-kva. generator in operation in 1956. A 4,860-h.p. turbine and 4,000-kva. generator, which served for a few years in a temporary capacity at Bridge River prior to the opening of the present Bridge River plant in 1948, has been re-installed in the Jordan River No. 1 plant bringing the capacity to 38,985 h.p. The Company extended its 60-kv. lines by connecting the Wahleach plant to the existing line between Chilliwack and Hope, by a line from Surrey to Delta, and by one from North Vancouver to West Vancouver. New substation facilities were provided at Vancouver, Victoria, Haney, Ladner, and Langford. The Company has purchased the generating and distribution systems of the Ashcroft Water, Electric and Improvement Company and of the Spences Bridge Light and Power Company Limited.

The Consolidated Mining and Smelting Company of Canada Limited expects to complete the construction of its Waneta development on the Pend Oreille River early in 1954. The plant will contain two turbines each of 105,000 h.p. under 210-foot head driving 90,000-kva. generators. Ultimately two additional units may be installed. The plant will be tied-in to the Company's system by three 60-kv. lines built this year to the Warfield substation.

Favourable progress has been made by the Aluminum Company of Canada on its great Kemano-Kitimat project involving the diversion of the headwaters of the Fraser River through the Coastal Range. The drilling of the 10-mile 25-foot-diameter diversion tunnel from Tahtsa Lake and of the penstock tunnel was expected to be completed by the year's end. The underground power-house has been completed and the work of installing three 140,000-h.p. turbines and 106,000-kva. generators is well advanced for operation in May 1954. The 50-mile transmission line from Kemano to Kitimat has