
Province of British Columbia

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Grand Forkes,
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to the British

Columbia Electric Railway Company, Limited, for a hydro-electric plant to be built at Goldstream, about 12 miles from Victoria, wherein it was stipulated that all water supplied for power purposes would be returned to the Water Works Company's reservoir below the Power House site, and in suitable condition for domestic purposes in Victoria.

The Esquimalt Water Works Company's storage reservoirs at Goldstream are five in number, and are at elevations of 1,200 to 1,500 feet above sea level. From the storage reservoirs, the water flows to a balancing reservoir at El. 1,100, the storage capacity of which is about 3,500,000 cubic feet, thence to a lower reservoir at El. 450.

In 1898, Goldstream Power House was built by the British Columbia Electric Railway Company, Limited. The Power House is of brick on concrete foundations, and



British Columbia Electric Railway Company, Limited. Generator Room, Goldstream Power House.

is situated near the west bank of the lower reservoir, the available static head at the water wheels being 650 feet.

The initial installation consisted of two 350 K.W., 3 phase, 60 cycle, 700 volt generators each direct connected to Pelton water wheels of 600 horse power; these units were placed in operation in September, 1898, and superseded the Steam Plant in Victoria.

Water is conveyed from the Water Works Company's balancing reservoir at El. 1,100 to Goldstream Power House through a steel pipe line 8,000 feet in length, made up of 4,000 feet of 33 inch pipe and 4,000 feet of 30 inch pipe. After leaving the tail races, the water passes over two measuring weirs, and is discharged into the lower reservoir.