

Province of British Columbia

Each of the main units is driven by three inward flow "Francis" turbine runners mounted on vertical shafts. The upper and intermediate runners discharge in opposite directions into one common draft tube, the upper one discharging downwards. The lower runner also discharges downwards, but into a separate draft tube. These draft tubes are moulded in the concrete and are joined together at the lower end, forming one common discharge. No steel lining is used in the draft tubes.

The thrust bearing is made up of two discs. The lower disc is supported by a ball seat and the upper one is held in place by an adjustable nut on the shaft. Oil is forced between the discs under a pressure of 150 lbs. per square inch.

The governor pressure pumps and governors are located in a chamber beneath the main floor of the building, the only machinery on the main floor being the generators, exciters and switch-boards.

The present transformer equipment consists of three banks of three 1,875 K.V.A. oil insulated, water cooled transformers, which step the voltage up from 2,200 to 60,000. There is also provided one bank of three 1,250 K.V.A. transformers, which step the voltage



Kootenay River Development. Head Works, No. 2 Power House. Upper Bonnington Falls.