

Plant.—Con.**Coquitlam-Buntzen Development, Plant No. 1.—Con.**

Installation.—Plant operates under an average head of 395 feet. Original tunnel between Coquitlam lake and lake Buntzen, constructed in 1902-3, was 12,650 feet long and 9 feet square with rounded corners. Tunnel was enlarged in 1908-11, part made egg-shape and balance rectangular; mean cross-sectional area 192 square feet. The water is conveyed from intake dam at lake Buntzen to power-house through riveted steel pipe lines 2,000 feet long. One 48-inch pipe for each of first four units; two 60-inch pipes for fifth unit, and one 84-inch, tapering to 72 inches, for each of last two units. **Turbines**—4 Pelton, hor., double runner, 3,000 h.p. each, 200 r.p.m., 1 Pelton, hor., four runner, 10,500 h.p., 200 r.p.m., 2 Doble, hor., four runner, 10,500 h.p. each, 200 r.p.m., total 43,500 h.p. **Generators**—4 West, A.C., 3-phase 60-cycle, 1,500 k.v.a. each, 200 r.p.m., 1 Dick Kerr, A.C., 3-phase, 60-cycle, 5,000 k.v.a., 200 r.p.m., 2 Can. Gen. Elect., A.C., 3-phase, 60-cycle, 5,000 k.v.a. each, 200 r.p.m., total 21,000 k.v.a.; **Transformers**—3 banks of 3 Can. Gen. Elect., single-phase, water-cooled, oil-insulated, primary 2,200 v., secondary 34,600 v., 3,000 k.v.a. each.

Coquitlam-Buntzen Development, Plant No. 2. (Hydro Power Plant No. 8GA₂).

Location.—Plant located on North Arm, Burrard Inlet, about one-third mile south of Plant No. 1.

Installation.—Plant operates under an average head of 395 feet. The water is conveyed from intake dam at lake Buntzen through a concrete-lined pressure tunnel about 1,800 feet long, and 14 feet 8 inches in diameter, driven through solid rock, to a steel surge tank. From the surge tank 3 steel penstocks, 8 feet 6 inches in diameter, convey the water to the power-house; **Turbines**—3 Pelton-Doble, hor., four runner, 13,500 h.p. each, 200 r.p.m., total 40,500 h.p.; **Generators**—3 Dick Kerr, A.C., 3-phase, 60-cycle, 8,900 k.v.a. each, 200 r.p.m., total 26,700 k.v.a.; **Exciters**—3 Pelton-Doble turbines, 300 h.p. each, 600 r.p.m. driving 3 motor generator sets; **motors** 3-phase, 2,200 v., 600 r.p.m., generators 300 k.w. each, 600 r.p.m.; **Transformers**—4 banks of 3 Can. Gen. Elect., single-phase, water-cooled, oil-insulated, primary 2,200 v., secondary 34,600 v., 3,000 k.v.a. each.

Steam Auxiliary Plant.

Location.—Plant located on Union Street and False Creek water front in Vancouver.

Installation.—**Steam Turbines**—4 Allis-Chalmers, 2,700 h.p. each, 1 Allis-Chalmers, 6,700 h.p., total 17,500 h.p.; **Generators**—4 Allis-Chalmers, A.C., 3-phase, 60-cycle, 2,000 k.w., 1,800 r.p.m., 1 Allis-Chalmers, A.C., 3-phase, 60-cycle, 4,500 k.w., 1,800 r.p.m., total 12,500 k.w.

Power. All power is sold to the controlling company, the British Columbia Electric Railway Company, Ltd.

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Western Power Company of Canada, Ltd. (Hydro Power Plant No. 8MH₂).

Address.—New York Office, 30 Broad St., New York, N.Y.; Vancouver Office, Carter-Cotton Bldg., Vancouver, B.C.

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