Western Power Company of Canada. Ltd.—*Con.*

History,—Company formed in 1916 and took over the property and franchises of Western Canada Power Company, Ltd., on February 1, 1917. The construction of the plant was commenced by Stave Lake Power Company and the initial installation of two units was completed by Western Canada Power Company in 1912. The third unit was installed in 1916.

Capital,—Authorized, $10,000,000. Issued, $5,850,000.

Debenture Stock,—Authorized, $500,000. Issued, $500,000.

Bonds,—Authorized, $6,000,000. Issued, $5,000,000.

Capital invested in Plant and Equipment,—$5,720,000.

Plant. *Official,*—L. B. Philpot (Supt.).

Location,—Plant located at Stave falls on Stave river, 6 miles north from the junction of the Stave and Fraser rivers at Ruskin, B.C., and 36 miles east of city of Vancouver. A standard gauge railway (6 miles), owned by the company connects with main line Canadian Pacific Ry. at Ruskin.

Installation,—Plant operates under an average head of 115 feet. Provision is made for raising the dam 30 feet. Water is conveyed from intake dam to power-house by four steel penstocks, each 14 feet 6 inches in diameter. Turbines—3 Escher-Wyss, hor., double runner, 13,200 h.p. each, 225 r.p.m., total 39,600 h.p.; Generators—3 Can. Gen. Elect., A.C., 3-phase, 60-cycle, 8,825 k.v.a. each, 225 r.p.m., total 26,475 k.v.a.; Exciters—2 turbines, hor., single runner, 500 h.p. each, 500 r.p.m., 2 generators, 250 k.w. each, 500 r.p.m.; Transformers—4 banks of 3 Can Gen. Elect., single-phase, water-cooled, primary 4,400 v., secondary 60,000 v., 3,000 k.v.a. each, 2 Can. Gen. Elect., 3-phase, water-cooled, primary 4,400 v., secondary 12,000 v., 1,000 k.v.a. each.

Power. *Transmission Lines,*—30 miles of steel tower lines, double circuit, and 22 miles of wooden pole lines, single circuit. Power is served by the company in the municipalities of Vancouver, New Westminster, Burnaby, Coquitlam, Matsqui, Mission City, and Maple Ridge.

Use of Power,—Power is used for lighting, operation of electric steel furnaces, general manufacturing and general power purposes.

Power is sold in bulk to British Columbia Electric Railway Company, of Vancouver, B.C., and Puget Sound Traction, Light and Power Company, of Seattle and Bellingham, Wash., U.S.A.

Power is delivered adjacent to Canadian Pacific Ry., Canadian Northern Ry., Great Northern Ry., Northern Pacific Ry., and coastal and ocean navigation.

The company has a fourth unit of 13,200 h.p. ready to install, which will complete the designed capacity of the plant.

The company, upon the installation of the fourth unit, will have available for sale 7,500 k.w.; rates for primary power range from $20 to $12 per k.w.

The company owns a second power site at Ruskin, on Stave river at tide water, about 40 miles above the mouth of Fraser river, near Canadian Pacific Ry. main line. This site is said to be capable of developing about 40,000 h.p.

VERNON.

Municipality of Vernon. (Fuel Power Plant No. 8NM$_3$). May, 1918.

Officials,—S. A. Shatford (Mayor); F. S. Reynolds (Chmn. Lt. Com.); J. G. Edwards (Clerk).

History,—Plant formerly contained a steam engine but at present Diesel engines are used. An additional generator unit was installed in 1914.

Capital invested in Plant and Equipment,—$199,000.

Plant. *Officials,*—H. A. Blakeborough (Supt. and Mgr.); T. Martin (Ch. Engr.); R. King (Engr. Pwr. Sta.); C. Johnston (Engr. Pwr. Sta.).

Location,—Plant located in Vernon, adjacent to Canadian Pacific Ry.

BRITISH COLUMBIA.