

continued on a steam turbine plant to consist of one unit of 134,000 hp.; however, if required, the site will permit the construction of a generating station having a capacity of 1,340,000 hp.

The Commission, in conjunction with Atomic Energy of Canada Limited and the Canadian General Electric Company Limited, is constructing, for completion in 1961, a 26,800-hp. Nuclear Power Demonstration plant near Des Joachims Generating Station on the Ontario side of the Ottawa River. In addition, several engineers of the Commission were assigned to aid the Nuclear Power Plant Division of Atomic Energy of Canada Limited in carrying out development work for a 268,000-hp. nuclear-electric generating station to be located on Lake Huron between Kincardine and Port Elgin. When it has been demonstrated to be a satisfactory source of power, it is proposed that the Commission will purchase this station at a price which will permit the production of energy at costs competitive with those of alternative energy sources.

Apart from the activities of the Commission, the Great Lakes Power Company completed the construction of its Hollingsworth Falls development on the Michipicoten River with the installation of a single 30,300-hp. unit.

Prairie Provinces.—In Manitoba, the Manitoba Hydro-Electric Board continued construction on the first-stage development of the Grand Rapid project on the Nelson River where five units of 42,000 hp. will be installed in 1960, with provision for a sixth similar unit. The power will be supplied to the mining project of the International Nickel Company in the Moak, Mystery and Thompson Lakes area of northern Manitoba. Work continued on the Board's Selkirk Generating Station where installation of two 66,000-kw. steam turbines will be completed in 1960, and construction proceeded on an interconnection between the Board's Brandon Generating Station and the Saskatchewan Power Corporation's Boundary Dam Generating Station.

In Saskatchewan, the Churchill River Power Company Limited, a subsidiary of the Hudson Bay Mining and Smelting Company Limited, completed the installation of a 19,000-hp. unit at Island Falls on the Churchill River, raising the installed capacity at the site to 125,500 hp. in seven units. In May, the Prairie Farm Rehabilitation Administration commenced construction of the main earth-fill dam for the South Saskatchewan River Project at the Coteau Creek site. Although the works are being constructed primarily for irrigation purposes, hydro-electric facilities will be incorporated by Saskatchewan at the dam. The initial installation will consist of three units of 50,000 or 60,000 hp. each, with provision for two similar units. The project is scheduled for completion in 1966. The Saskatchewan Power Corporation started the construction of a development in the Tobin Rapids-Squaw Rapids reach of the Saskatchewan River, 35 miles northeast of Nipawin. The development will consist of six units, each rated at 46,000 hp.; four units are planned for installation by 1963 and the remainder by 1964. During 1959, the Corporation doubled the capacity of its Queen Elizabeth steam turbine plant at Saskatoon with the addition of a second 66,000-kw. steam turbine unit. At the new Boundary Dam Generating Station at Estevan, the Corporation installed the first unit, a steam unit of 66,000 kw., and is constructing a second similar unit. A new 500-kw. diesel unit was added by Northland Utilities Limited to its plant at Uranium City.

In Alberta, Calgary Power Limited resumed construction on extensions to its Spray and Rundle plants located in the upper part of the Bow River basin. Both plants are scheduled for completion in late 1960 at which time the capacity of the Spray plant will be doubled by the addition of a 62,000-hp. unit and the Rundle plant will be almost trebled by the addition of a 40,000-hp. unit. The Company also began the installation of a single 200,000-hp. unit on the Brazeau River at Big Bend, about 15 miles upstream from the confluence with the North Saskatchewan River. Plans for this development call for the installation of additional units of the same size to an ultimate capacity of 800,000 hp. Investigation is under way for a hydro-electric development on the Saskatchewan River at Brazeau Forks, below the confluence with the Brazeau River. In the thermal-electric field, Calgary Power Limited proposes to begin installation in 1960 of a 150,000-kw. steam turbine as an addition to its 132,000-kw. Wabamun plant.