

power canal and thus increase the output of the units in the main generating station. Work on the installation and assembly of the generators for the three remaining units progressed favourably. They are expected to be in service in the spring of 1958.

Marking the fulfillment of the Niagara River remedial works program, the construction of a control dam in the Niagara River about a mile upstream from the falls was completed in the early part of the year and the last four gates were placed in operation. The completed dam with its 14 concrete piers incorporates 13 sluiceways, each 100 feet in width and equipped with bascule-type submersible gates. A service deck 1,500 feet in length spans the structure. Other portions of the remedial works program involved the excavation of certain areas of the river-bed and the placing of fill on the United States side of the river, which was carried out by the United States Army Corps of Engineers in 1954, and similar work on the Canadian side, which was carried out by the Commission in 1955.

The development of Whitedog Falls on the Winnipeg River was undertaken by the Commission in 1955 and considerable preparatory work was carried out at the time and during the following year. The total turbine capacity will be 81,000 hp. and initial service is scheduled for February 1958. At the end of 1957, construction of the main dam for the three-unit generating station was substantially completed. The dam incorporates a powerhouse, adjoining headworks, and a sluiceway structure with nine sluice-gates, two of them motor-operated. It extends some 1,150 feet across the south channel of the river at Whitedog Island. By the end of the year the dam, including the south bulkhead, gate sluices, log-chute head-block, and a compacted earth-fill wing dam on the north shore, had been completed. Mechanical equipment for the two motor-operated sluice-gates was installed also. Concrete placing in the powerhouse structure was completed and work crews began the assembly and erection of turbines and generators.

The construction of the Caribou Falls Generating Station was commenced by the Commission in 1956. It is located in the northwestern section of province, on the English River about 17 miles northwest from Whitedog Falls, and its three units which will total 102,000 hp. are scheduled for service by October 1958. Early in 1957 the powerhouse site was dewatered and excavation was begun for a main dam structure which will extend 1,260 feet across the river. By the end of the year much of the new station had taken shape. East and west bulkheads and the erection bay were built and concrete was placed for piers and sluices in the headworks area. In the powerhouse area the structural work for the first unit was almost complete and the installation of the turbine and generator was