

*Waiotahi.*—The 1,500 kVA. 50/11 kV. transformer-bank was replaced by a 3,000 kVA. bank from Hamilton on 24th August, 1947. In November the switchgear D.C. tripping was changed from 32 volts to 12 volts, and a 50 kV. automatic earthing-switch was installed.

*Wairuku.*—The temporary 11 kV. switchgear was replaced by new seven-panel, metal-clad switchgear on 31st August, 1947.

*Dargaville.*—A site was selected, contoured, and plan prepared.

### 3. TRANSMISSION AND DISTRIBUTION

#### (a) 220 kV. Lines

*Whakamaru-Otahuhu.*—The preparation of the 3-chain tracings was completed for the east circuit, and the survey of both lines is practically complete. Construction camps have been erected at Waerenga, Gordonton, Bruntwood, and Arohena. Work is proceeding on tree-felling and the formation of access roads.

*Whakamaru-Bunnythorpe.*—The survey of the west line is complete, and the east-line survey is proceeding. An access road was formed around the west side of Lake Taupo. Camps have been built at Tihoi and Turangi. Fair progress has been made by the Public Works Department with road metalling and bridging in the Waiouru area.

The construction camp at Bunnythorpe has been completed, buildings for Mangaweka and Kimbolton camps acquired, and these camps laid out. Land for the permanent line depot at Mangaweka was acquired. Instructions were given for the erection of the first buildings.

*Whakamaru-Maraetai.*—The survey of both tie-lines is complete. A camp has been built at Mangakino.

*Bunnythorpe-Haywards.*—Survey of this line by one party has progressed slowly. A total of 9 miles of the east line and 49 miles of the west has been profiled. Plan work is proceeding.

*Linton Steel Depot.*—This depot has been established for receiving and issuing the steel for the North Island's 220 kV. system. It is estimated that 18,000 tons of tower components will be handled. Land has been leased and laid out ready to receive the 9,000 tons comprising the first contract. Mobile cranes and other plant have come to hand.

#### (b) 110 kV. Lines

*Henderson-Maungatapere.*—A detailed survey has been completed and material schedule prepared. Route plans are practically completed. Construction camps were erected.

*Arapuni-Otahuhu and Otahuhu-Penrose.*—Detailed survey and plans were completed and a material schedule prepared.

*Karapiro-Hamilton.*—The east circuit was put into service to supply Karapiro on 29th March, 1947, and both lines were brought into service when Karapiro Power-station was put on commercial load in April.