DEPARTMENT OF

TRADE AND COMMERCE
CANADA

STANDARDS DIVISION

SD-EA.322

OTTAWA November 21, 1957.

TYPE APPROVAL

PIONEER TYPE "IAPAT" METERING TRANSFORMER UNIT, 3-PHASE
DUAL CURRENT RATIO

The apparatus specified herein has been duly approved by the Standards Division under the provisions of the Electricity Inspection Act, Chapter 94, R.S. 1952, and may be admitted to verification in Canada.

Apparatus Approved: Type "IAPAT" Metering Transformer Unit, manufactured by Pioneer Electric Limited, No.1 Rockwood Place, Fort Garry, Winnipeg 9, Man.

Rating of Apparatus:

Primary Voltage	7200
Secondary Voltage	120
Primary Currents	50/25, 30/15, 20/10 amperes
Secondary Current	5 amperes
Voltage Transformer Accuracy Class	0.3WXY 0.6Z
Current Transformer Accuracy Class	0.3B0.1, B0.2, B0.5, 0.6B1.0
Phase and Wire	3-phase 3-wire and 3-phase 4-wire
Frequency	60 cycles

Note:- All accuracy ratings shown on nameplate.

Description: These units are of two types, one for 3-phase 3-wire and one for 3-phase 4-wire metering. The 3-phase 3-wire type consists of two voltage transformers connected line to line and two current transformers connected in the line. The 3-phase 4-wire type consists of two voltage transformers connected line to neutral with the neutral being either grounded internally or brought out through a bushing and three current transformers connected in the line. The current transformers have dual ratios. Change in ratio is achieved by either one of two methods:- by moving the primary load lead from one side of a dual conductor bushing to the other, or by changing a lead in the secondary terminal box. Both types will be mounted in an oil-filled tank similar to that illustrated in Circular SD-EA.306, August 19, 1957. Bushings of the appropriate voltage class and of number according to the circuit arrangement are mounted on the cover. All secondary leads are brought out to a junction box and identified. Shorting devices for current transformer secondaries are fitted. Circuit diagrams are furnished on the nameplate. The construction of the units is indicated by the type designation as explained in Circular SD-EA.306.

R. W. MacLean,
Director,
Standards Division.

E. F. Power,
Assistant Director (E&G),
Standards Division.

Ref: A-645B