



STANDARDS DIVISION

OTTAWA, April 4, 1957.

TYPE APPROVAL

EASTERN POWER DEVICES TYPE "C" CURRENT TRANSFORMERS

The apparatus specified and illustrated 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 "C" Current Transformers, manufactured by Eastern Power Devices Limited, 29 Wabash Avenue, Toronto 3, Ontario.

Rating of Apparatus:

Type	Primary Currents	Accuracy Rating*
C-2	300 amperes	0.6BO.1 BO.5
C-2	400, 500, 600 amperes	0.6BO.1, BO.5, BO.9, B1.0, B2.0
C-6	150 amperes	0.6BO.1, BO.5, BO.9, B1.0**
C-6	200 amperes	0.6BO.1, BO.5, BO.9, B1.0, B2.0
C-7	150, 200, 300, 400, 800 amperes	0.3BO.1, BO.5, BO.9, B1.0, B2.0
Secondary Current .....		5 amperes
Voltage Class .....		5 KV
Frequency .....		60 cycles
Style .....		Indoor

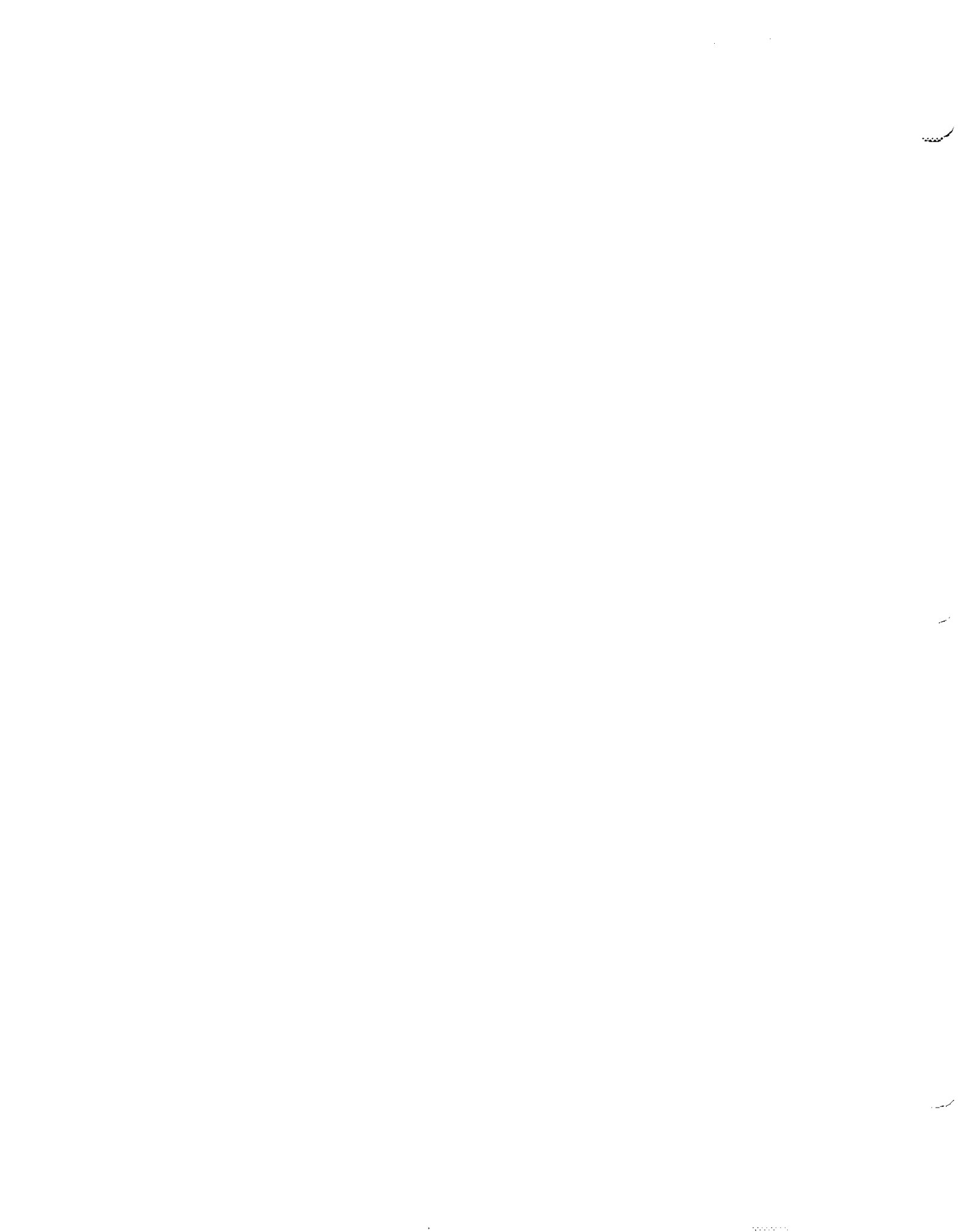
\* BO.5 stamped on nameplates.

\*\* This 150-5 ampere rating has three secondary terminals X<sub>1</sub>, X<sub>2</sub>, X<sub>3</sub>. The metering accuracies shown are those obtained when using X<sub>1</sub> and X<sub>2</sub>. When the transformer is used with burdens of 50 VA and above (i.e. for relay service, not metering), terminals X<sub>1</sub> and X<sub>3</sub> are to be used.

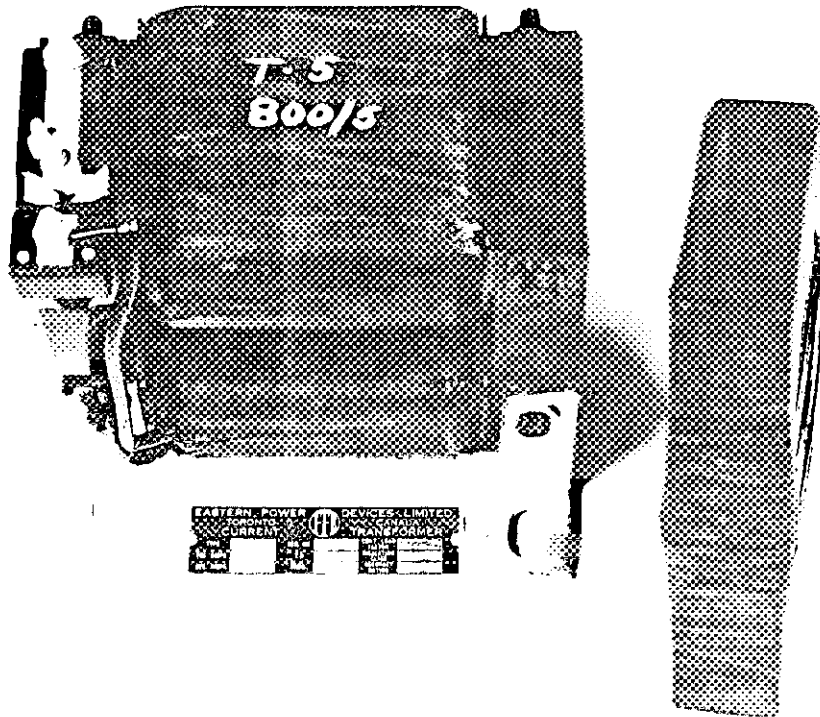
Description: The "C" type transformer is available in three different general type classifications, viz. C-2, C-6 and C-7. Two of the types are coordinated for constant mechanical strength ratings and, due to the varying ampere turn ratings, the metering accuracy is severely limited particularly at the lower primary current ratings. The third type is designed for a more uniform ampere turn rating with resulting higher metering accuracy but with a mechanical strength rating which varies with primary current. The type "C-2" is rated for 100,000 amperes mechanical strength; type "C-6" is rated for 37,500 amperes mechanical strength; and the type "C-7" varies with the primary current rating.

The core of the transformer is assembled from rectangular strips of grain oriented steel. The core is stacked to form a rectangle with the laminations overlapping at each corner in groups of three. The primary and

.....(secondary)<sup>2</sup>



EASTERN POWER DEVICES TYPE "T" CURRENT TRANSFORMER





secondary windings both encircle the top leg of the transformer core, the secondary winding being next to the core. The primary winding is wound from soft, round edge, flat copper bar in one continuous radial coil. The two primary terminals are supported by an insulated non-magnetic brace to provide the necessary short-circuit mechanical strength for the top section of the primary winding. The primary polarity is indicated by a white polarity marker which is bound into the transformer with tape. Similarly the corresponding secondary terminal is marked by white dots on the bakelite terminal block.

*E. F. Power*

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

*R. W. MacLean*  
R. W. MacLean,  
Director,  
Standards Division.

Ref: A-576

