



**NOTICE OF APPROVAL
AVIS D'APPROBATION**

T-111

Ottawa, March 11, 1976

TRENCH ELECTRIC CAPACITOR VOLTAGE TRANSFORMERS

Manufacturers Type

Designation:

0.6 TEM followed by nominal system
1.2 TEM voltage in kilovolts

Frequency:

60 Hz

Accuracy Ratings:

0.6 TEM - 0.6 WXYZ
1.2 TEM - 0.3 WXY, 1.2 Z

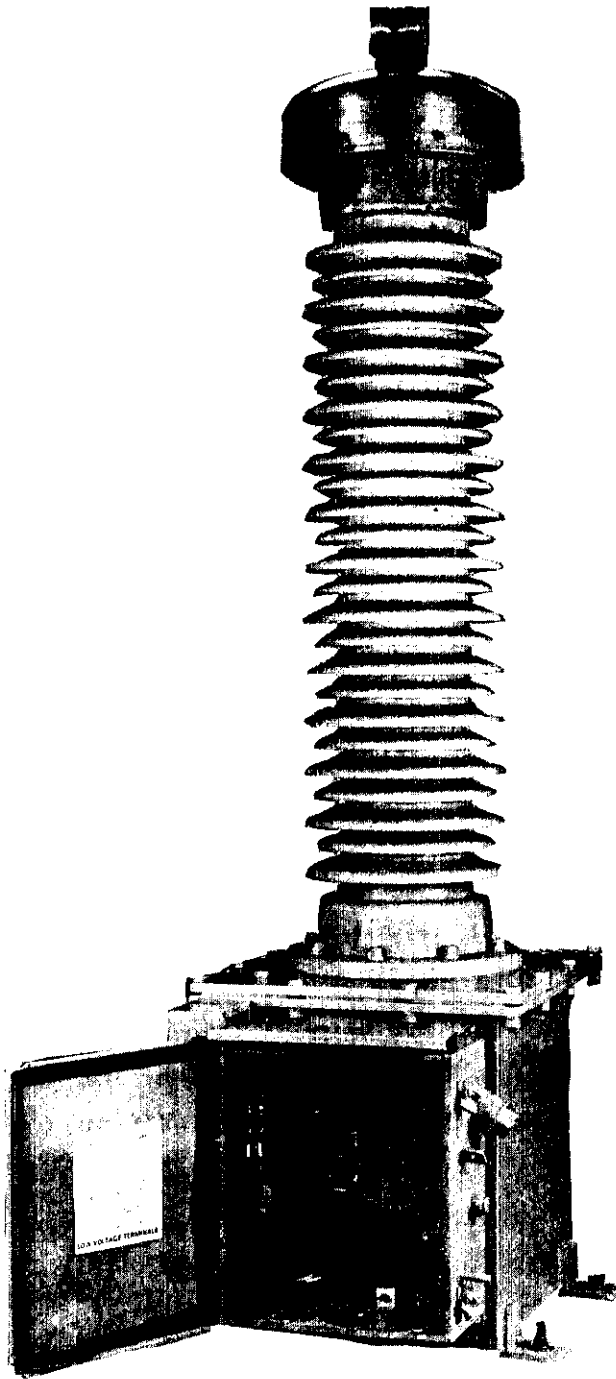
Secondary Windings:

Two, tapped or untapped

Capacitance C_2 :

78000 picofarads
(Tolerance +15%, -10%)

<u>Nominal System Voltage</u>	<u>Transformer Ratios</u>	<u>Accuracy Rating Voltage</u>		<u>Capacitance C1 Picofarads</u>
		<u>Primary</u>	<u>Secondary</u>	
69 Kv	350/600 :1	42000	120-70 or 70	11800
115 Kv	600/1000:1	69000	115-69 or 69	6600
138 Kv	700/1200:1	84000	120-70 or 70	5500
161 Kv	800/1400:1	95200	119-68 or 68	4800
230 Kv	1200/2000:1	138000	115-69 or 69	3200
300 Kv	1500/2500:1	172500	115-69 or 69	2400
345 Kv	1800/3000:1	207000	115-69 or 69	2000
500 Kv	2700/4500:1	310500	115-69 or 69	1500



Type TEM

Description

The capacitor voltage transformer (CVT) comprises a capacitor voltage divider unit and an electromagnetic unit so designed and interconnected that the secondary voltage of the electromagnetic unit is substantially proportional to and in phase with the primary voltage applied to the capacitor divider unit.

There may be up to four capacitor sections which consist of a porcelain shell and the internal capacitor foils. These are mounted on a base box which has two compartments, one oil-filled, the other air-filled. The oil-filled compartment is sealed and inaccessible, containing the high voltage components. This compartment is non-breathing. The air-filled compartment contains the carrier accessories (optional), the secondary terminations and the surge diverter for the step-down transformer.

Note that there are no means of adjustment provided.

The CVT may be used with or without carrier coupling accessories.

Approval granted to:

Trench Electric Limited,
Scarborough (Toronto),
Ontario.



J. L. Armstrong,
Chief, Standards Laboratory,
Metrology and



D. L. Smith,
Chief, Electricity & Gas Division,
Laboratory Services.

Ref: 1145-57 T210-182