



NOTICE OF APPROVAL  
AVIS D'APPROBATION

T-111-1

Ottawa, July 6, 1978

TRENCH ELECTRIC CAPACITOR VOLTAGE TRANSFORMERS

Manufacturer's Type Designation      0.3 TEM      followed by nominal system voltage in kilovolts

Frequency      60 Hz

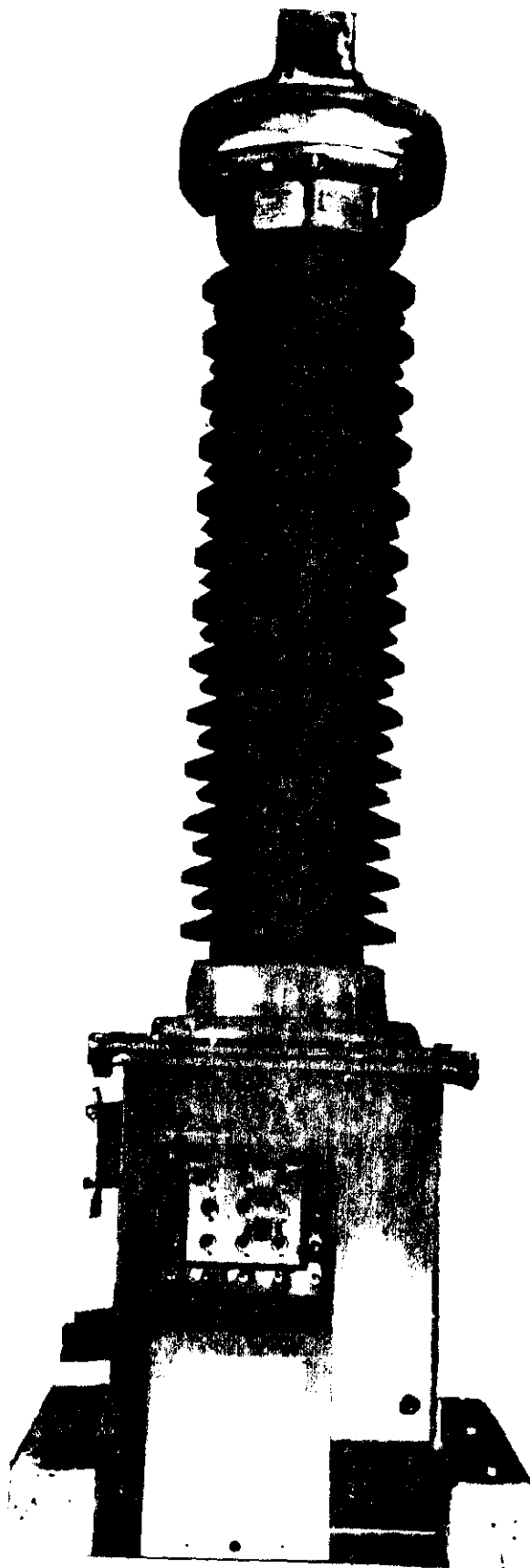
Accuracy Rating (CSA): <sup>(1)</sup> 0.3Z

Secondary Windings:      Two, tapped or untapped

Capacitance C<sub>2</sub>      52000 picofarads  
(Tolerance +15%, -10%)

Nominal System Voltage	Transformer Ratios	Accuracy Rating Voltage		Capacitance C <sub>1</sub> Picofarads
		Primary	Secondary	
69 kV	350/600 :1	42000	120-70 or 70	14500
115 kV	600/1000:1	69000	115-69 or 69	8000
138 kV	700/1200:1	84000	120-70 or 70	6300
161 kV	800/1400:1	95200	119-68 or 68	5300
230 kV	1200/2000:1	138000	115-69 or 69	3600
300 kV	1500/2500:1	172500	115-69 or 69	2700
345 kV	1800/3000:1	207000	115-69 or 69	2400
500 kV	2700/4500:1	310500	115-69 or 69	1700

(1) The maximum total burden must not exceed "Z"



TYPE 0.3 TEM-115

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.

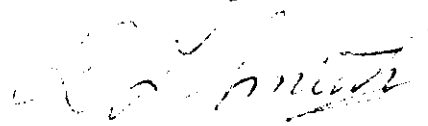
Note that there are no means of adjustment provided.

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

This is an addition to Notice of Approval T-111, which remains in effect, to include the type 0.3TEM transformers of which the accuracy rating is 0.3Z and the values of capacitance for C1 and C2 differ from those approved under T-111.

Approval granted to:

Trench Electric Limited,  
Scarborough, Ontario.



D.L. Smith, P. Eng.,  
Chief,  
Electricity and Gas Division  
Metrology Branch.

Ref: G6565-T210-35