DEPARTMENT OF

TRADE AND COMMERCE
CANADA

S-EA.587

STANDARDS BRANCH

OTTAWA July 5, 1963.

TYPE APPROVAL

CANADIAN GENERAL ELECTRIC
TYPE "VGM--" VOLTAGE TRANSFORMERS

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

Apparatus Approved: Type "VGM--" Voltage Transformers, manufactured by the Canadian General Electric Company Limited, Toronto, Ontario.

Rating of Apparatus:	Primary Voltage	Ratio	System Voltage Line-to-Line
Type "VGM-115"	66400	1000/600-1	115000
" "VGM-138"	79700	1200/700-1	138000
" "VGM-161"	93000	1400/800-1	161000
" "VGM-196"	113000	1700/1000-1	196000
" "VGM-196"	133000	2000/1200-1	230000
" "VGM-230"	133000	2000/1200-1	230000
" "VGM-287"	166000	2500/1500-1	287000
" "VGM-287"	199000	3000/1800-1	345000
" "VGM-345"	199000	3000/1800-1	345000

*Secondary Voltages .... 66.4/115 approx. or 66.4/66.4

#Accuracy Class ..... 0.3WXYZ one secondary loaded
0.6WXYZ/0.6WXYZ both secondaries loaded

Phase 1
Frequency ..... 60 cycles
Style ..... Outdoor oil-filled.

* The ratios are exact, so that the actual secondary voltage may differ somewhat from these values depending upon the ratio. Each transformer has two separate untapped secondary windings, so that 115 volts and/or $115/\sqrt{3}$ volts approximately are available. One secondary will be identified as X_1-X_2 and the other as Y_1-Y_2, and the nameplate will give the voltage relationship.

#The nameplate will be marked "0.6Z/0.6Z".

Description: These voltage transformers are designed for outdoor service in the operation of meters, relays and control devices. They are of the cascade type of construction similar to the type "VC-" receiving approval under Circular SD-EA.248 of June 11, 1956 and Circular SD-EA.276 of January 8, 1957 except

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- p.t.o.

that all stages are enclosed in a one-piece porcelain shell. The cores are made of high quality grain oriented silicon steel. The high voltage windings are of the continuous layer wound type. The number of stages varies in proportion to the voltage. Two separate secondary windings in each transformer provide a double ratio.

These transformers are designed to be connected from line to neutral.

J.R. Gardiner

(for) E. F. Power,
Chief, Electricity and Gas Division,
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H. W. MacLean,
Director,
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Ref: A-539B

CANADIAN GENERAL ELECTRIC TYPE "VCM" VOLTAGE TRANSFORMER