

TRADE AND COMMERCE CANADA

## STANDARDS DIVISION

OTTAWA,..... June 4, 1953.

## MODIFICATIONS OF TYPE APPROVAL

CANADIAN WESTINGHOUSE POLYPHASE WATTHOUR METERS, TYPES "CA-2", "CB-2", "CS-2", "CS-3", "CA-5", "CS-5", "CS-7", "CA-8", "CS-8"

The modifications to the apparatus specified and illustrated herein have been duly approved by the Standards Division under the provisions of The Electricity Inspection Act, Chapter 22, 1928, as amended, and the modified apparatus may be admitted to verification in Canada.

Apparatus Modified: Types "CA-2", "CB-2", "CS-2", "CS-3", "CA-5", "CS-5", "CS-7" "CA-8" and "CS-8" Polyphase Watthour Meters, manufactured by the Canadian Westinghouse Company Limited, Hamilton, Ontario.

Rating of Apparatus:

Modification #1, consisting of a change in the overload shunt, is applicable to the 2½ and 5 nominal ampere meters only in all the types listed.

Modification #2, consisting of an additional U-shaped shunt for light load correction, is applicable to the 5, 10 and 15 ampere meters in all the types listed.

Description:

Modification #1 - The overload shunt has been changed in the 2½ and 5 ampere meters in order to flatten the single element load curve. The new shunt differs very decidedly in appearance from the former shunt but this change of appearance is largely for manufacturing, not electrical, reasons. In changing the overload shunt to this design a corresponding change is required in the quadrature loops. In order to allow the quadrature loop to mount flush with the overload shunt, the ends are notched (see illustration). The only significant change in these quadrature loops is an increase in the mean length of about 10%.

Modification #2 - This consists of an addition of a Machine desput (see illustration). Modification #2 - This consists of an addition of a U-shaped shunt (see illustration) to the 5, 10 and 15 ampere meters. This shunt tends to hold the performance curve horizontal in the range below the light load test point.

Standards Division Approval Circulars which apply to the above listed types are as follows:-

Type "CA-2" - NRC-164
" "CB-2" - SD-EA.37
" "CS-2" - NRC-98 SD-EA.60 SD-EA.60 SD-EA.60 "CS-3" - NRC-155 "CA-5" - NRC-164 SD-EA.60 "CS-5" - NRC-98 "CS-7" - NRC-122 "CA-8" - SD-EA.34 "CS-8" - SD-EA.34

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Ref: A-300

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