SD-EA.30

CANADA

DEPARTMENT OF TRADE AND COMMERCE

STANDARDS DIVISION

OTTAWA, May 27, 1950.
(Superseding Circular Letter SD-EC.89, dated April 26, 1950)

NOTIFICATION OF TYPE APPROVAL

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

Apparatus Approved: Types "NA" and "NS" Vertical Polyphase 2-element 2-disc Watthour Meters, manufactured by the Sangamo Company Limited, Leaside, Canada.

Rating of Apparatus:

Rated Amperes	All ratings up to 50 amperes
Maximum Amperes	Double rated amperes in every case
Voltages	115, 230, 460, 575
Wire	3
Phase	3
Frequency	50 and 60 cycles.

Description: The elements are the same as used in the "EDA" and "EDS" meters, approved under NRC-166, dated January 14, 1947. The enclosure of the "NA" meter consists of a die cast base, similar in size to that of the "EDA" but with a much larger terminal block to accommodate a maximum of eight current, and seven potential, terminals. The unused openings in the moulded block are plugged. The "NS" meter employs the standard socket plate and cover. The moving element, permanent magnet and register are assembled on a separate independently-removable grid, which is mounted on the front of the electromagnets. This construction permits removal of the moving element for inspection without disturbing calibration. The disc constant of the 5-ampere, 115-volt meter is 2/3, and the register ratio is 1500.

"HQ" demand registers, already approved, may be used on the "NA" meters only.

Adjustments: The adjustments are the same as in the "EDA" and "EDS" meters with the addition of a balancing adjustment, which is mounted on the front of the two electromagnets, between them and the grid which carries the moving element. It consists of four small steel shoes, attached to a frame arranged to slide them across the leakage gaps of the electromagnets. The shoes are arranged in such a way that, as the shunting effect on one element increases, the effect on the other decreases. The result is that balancing has a practically negligible effect on calibration.

Registers: Kilowatthour registers are the same as used on "CFA" and "CFS" meters, and may be either clock or cyclometer type.

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SANGAMO TYPE "NA" VERTICAL POLYPHASE WATTHOUR METER