

TRADE AND COMMERCE  
CANADA

STANDARDS BRANCH

S-EA.444

OTTAWA, March 29, 1960

MODIFICATION OF TYPE APPROVALSANGAMO TYPES "NBP" AND "NBS" POLYPHASE WATTHOUR METERS

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

Apparatus Modified: Types "NBP" and "NBS" Polyphase 2-Element and  $2\frac{1}{2}$ -Element Wye Watthour Meters, manufactured by the Sangamo Company Limited, Leaside, Toronto 17, Ontario.

## Rating of Apparatus:

2-ELEMENT METER

Type ..... "NBS"  
Current Range ..... 2.5-200 amperes  
Voltages ..... 115, 230, 460, 575 OR 120, 240, 277\*, 480, 600  
AND 120/208, 240/416, 277/480\*  
Elements ..... 2 - 3-phase, 3-wire  
Basic Constant ..... 12 (i.e. for 115- or 120-volt rating)  
Frequency ..... 50 and 60 cycles

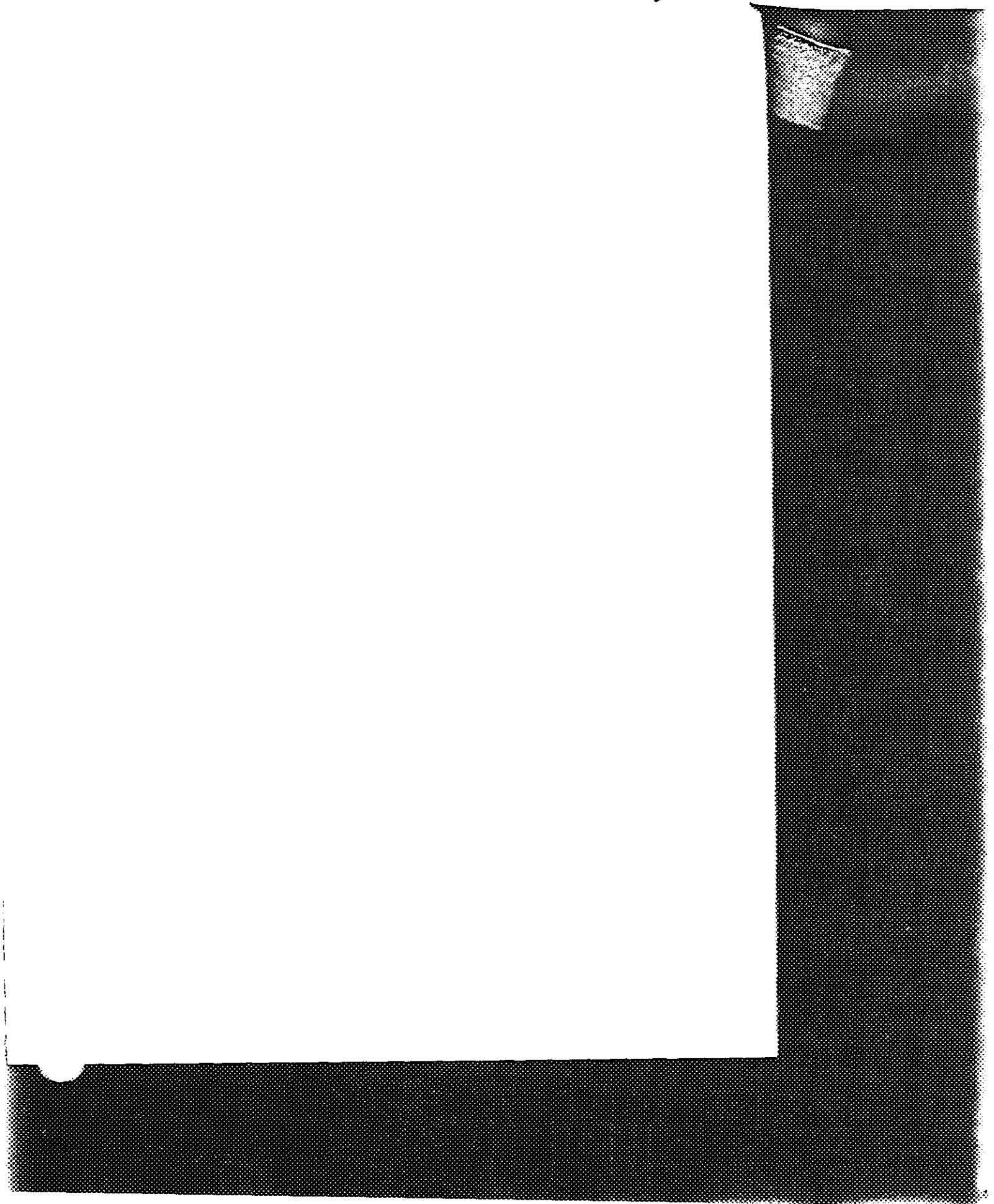
 $2\frac{1}{2}$ -ELEMENT METER

Types ..... "NBR" and "NBS"  
Current Range ..... 1.2-100 amperes  
Voltages ..... 120/208, 240/416, 277/480\*  
Elements .....  $2\frac{1}{2}$  wye - 3-phase, 4-wire  
Basic Constant ..... 9 (i.e. for 120/208 rating)  
Frequency ..... 50 and 60 cycles

\* The 277 and 277/480 volt ratings do not apply on 50 cycles.  
On 60 cycles use of the meters at these voltages is permitted  
when calibrated on 240 volts.

.....(Modifications)<sup>2</sup>







Modifications:

2-ELEMENT METER

The 2.5-200 ampere, 2-element polyphase meter is essentially the same as the 50-ampere (nominal) meter approved under SD-EA.177, February 10, 1955. To obtain the required load characteristics for the "normal current range" the proportions of the electromagnets have been modified, the proportions of the overload bridge changed, and other minor modifications made. This meter is only manufactured in the type "NBS" form.

2½-ELEMENT METER

This meter is identical with the 25-ampere (nominal) type "NB" meter approved under SD-EA.240, April 11, 1956, except for a modification to the interaction shield and to the current rating. This meter is manufactured in the type "NBS" and "NBP" forms. Use on 277 volts is permitted for both 2-element and 2½-element meters when calibrated at 240 volts.

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