

SFE-163

SL-85-2-2
SI-10-882 (AL)
SI-100-882

OTTAWA, November 13, 1969.

SPECIAL APPROVAL

Granted to: Ontario Hydro Central Meter Shop,
200 Kipling Avenue South,
Toronto 18, Ontario

Subject: One Only Canadian Westinghouse Type "M20-2F" Polyphase
Watt-hour Meter converted from 60Hz to 25Hz by Ontario
Hydro Central Meter Shop, 200 Kipling Avenue South,
Toronto 18, Ontario.

Attention: Mr. S. R. Percival,
Technical Supervisor,
Central Meter Service,
Supply Division

Special Approval has been granted by the Standards Branch for use in
Canada for billing purposes to the above-named watt-hour meter.

This meter was rated at .25-10 amperes 120 volts 60Hz and the conversion
procedure required that the original electromagnets be replaced by 50Hz .40
volt electromagnets. A heavy copper shroud on both current poles provides the
.85 or part of the lagging, and an additional turn of wire with a soldered pig-
tail provides the power factor adjustment. Light load adjustment is by means
of a turn of wire around one leg of the potential coil laminations.

To keep the starting watts low, the anti-creep holes in the disc are
fitted with aluminum plugs.

The conversion resulted in a meter with a disc constant (Kh) of 2.0 but
the Westinghouse Company have supplied change gears that produce a register
ratio of 50.

This meter will be installed at the International Nickel Company,
Sudbury.

G. O. Anderson

G. O. Anderson,
Assistant Director & Chief Engineer.

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(for)

W.J.S. Fraser,
Chief, Electricity and Gas Division.

c.c. Mr. G. C. Piirainen, P.I. of P&G, Sudbury,
International Nickel (through Mr. Piirainen)
Mr. J. W. Kokesh, Regional Manager
Mr. R.S. Foster, Director, Operations Branch.