



Consumers and
Corporate Affairs

Consumption of
Supplies

SPG-260

Consumer
Structure
Director

Division
Corporate
Administration

OCTAWA, Ontario
K1A 0C9

G 6635-R2-40

28 March 1980

SPECIAL APPROVAL

Granted to: Greater Winnipeg Gas Company
265 Notre Dame Avenue
Winnipeg 2, Manitoba

Attention: Mr. Walter Tabelius
Design Engineer

Subject: Field Trial of Rockwell Type RC230
Temperature Compensating Meters, Equipped
with Index Transmitter Assembly (Rockwell
Kit #001-63-666-03)

Special approval is hereby granted to Greater Winnipeg
Gas Company, by the Legal Metrology Branch for the trial
billing use of fifty (50) Rockwell type RC230 temperature
compensating gas meters (approved under G-117, dated
May 20, 1976) each fitted with an index transmitter
assembly.

PHYSICAL DESCRIPTION

The transmitter assembly essentially consists of:

- 1) a magnetic disc fixed to the end of the proving
dial shaft of a Rockwell #78, counter-type
register;
- 2) a glass encapsulated, hermetically sealed, reed
switch potted into the lexan cover that fits over
the index; and
- 3) fifty (50) feet of Belden #8443, 3 conductor cable
for connection to remote equipment. The proving
dial shaft will also be equipped with an "extended"
pointer to accommodate automatic proving in the
normal manner.

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OPERATIONAL DESCRIPTION

In operation, each complete revolution of the disc activates the switch to "make and break" a single pole, double throw contact, forming part of an external circuit to a remote totalizing device. For each of the fifty (50) meters, pulses generated by the index transmitter will be transmitted to a remote location via an experimental telephone meter reading system involving Manitoba telephone.

NOTE: only the meter register, in each case, will be used for customer billing. The remote totalizer is merely a part of an experimental system and must not be used for customer billing.

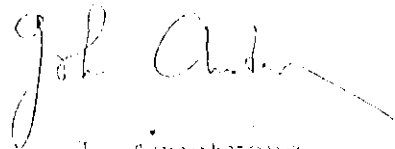
METER IDENTIFICATION

The subject meters will have serial numbers from DG240566 to DC240615 inclusive and utility identification numbers from 183868 to 183917 inclusive.

VERIFICATION REQUIREMENTS

- 1) The fifty meters will be considered as a lot for inspection purposes and shall be so identified in accordance with the requirement of Section 2.3, Part IIA of Departmental Instructions;
- 2) Verification will be by 100% inspection, i.e. sub-sections 2.5 and 2.8 of Departmental Instructions shall apply;
- 3) Verification procedures shall be followed, in accordance with appropriate sub-sections of Sections 3 and 4 of the Departmental Instructions
- 4) The District Manager should arrange with Greater Winnipeg Gas to have comparative readings, from each of the meters and their respective remote totalizers, passed to the legal Metrology branch via the District Office, at various times throughout the duration of the tests. These results could be used in evaluating the system in the event that Greater Winnipeg Gas seeks approval of the remote reading system for future billing purposes

- 5) Sealing of the meters shall be as required in Notice of Approval G-117, dated May 20, 1976;
- 6) The fifty meters shall not be used as members of a proto group;
- 7) At the termination of the trial tests (duration is unknown at this time) the utility may wish to have these meters put into "normal service". If so, each meter shall be fitted with a normal register and placed back into service, after being duly verified and resealed by a federal E&G inspector. This fifty meter lot shall then be treated like any other lot whose seal date shall be that of the original "test trial seal".



J. Armstrong
Acting Chief
Electricity and Gas Division

cc: W. Sayers
A/District Manager (E & G)
Winnipeg, Manitoba

Mr. J.R. Stevenson
General Plant Manager
Rockwell International of
Canada Limited