

SPG-103

SL-89-41
SL-100-981
SL-100-SPG

OTTAWA, February 19, 1971.

SPECIAL APPROVAL

Granted to: Canadian Industrial Oil and Gas Company,
440-8th Ave. S.W.
Calgary, Alta.

Subject: Rockwell Type T Temcorector (case-compensated)
incorporating correction for Supercompressibility
Factor at line pressure.

Special Approval has been granted by the Standards Branch to Canadian Industrial Oil and Gas Company for the use of the following equipment in the measurement of gas to the Calgary Power Wabumma Plant:

Rockwell case-compensated Type T Temcorector
Serial #B-3661

This instrument has been designed and calibrated for an average atmospheric pressure of 15.5 psia, a base pressure of 14.65 psia, a pressure range of 0-500 psig and a Temperature Range of -20°F to +130°F. It is to be mounted on a Rockwell Type T-60 Series G Turbo Meter rated 720 psi and having 1000 foot circle.

The instrument corrects for supercompressibility. The factor is based on 0.622 specific gravity gas at 60°F.* The correction varies with pressure as follows:

<u>Pressure</u>	<u>Calibration Correction Factor (F_{ov})</u> ²
100 psig	1.0165
200 "	1.0333
300 "	1.0505
400 "	1.0683
500 "	1.0866

* Total heating value of 1054.0 B.T.U. (sat) per cu. ft.
and the mol fraction nitrogen content 0.01649.

The working conditions are stated to be:

Temperature Range	+30°F to +50°F
Line Pressure	250 psig
Flow Rate	26 MCFD (Max) 3MCFD (Min)

- This approval supersedes SFG-84, November 17, 1970 which is thus cancelled.

W. J. S. Fraser

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

c.c. Rockwell Mfg. Company of Canada Ltd.
Mr. A. Park, D.I. of Calgary E&G
Mr. J. M. Taylor, D.I. of Edmonton E&G
Mr. R. H. McKay, Regional Manager, Winnipeg
Mr. W. R. McLowry, Regional Supervisor E&G, Toronto.

