

SFG-31

SE-85-41  
SL-100-981  
SFG-31

September 8, 1969.

SPECIAL APPROVAL

Granted to: Canadian Industrial Oil and Gas Company,  
640-8th Ave. S.W.,  
Calgary, Alta.

Subject: Rockwell Type I Temcorector  
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 Refinery Plant:

Rockwell Type I Temcorector Serial #B7166

This instrument has been designed and calibrated for an  
average atmospheric pressure of 13.5 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 0.616 specific gravity gas at 60°F and the correction  
varies with pressure as follows:

<u>Pressure</u>	<u>Supercompressibility Factor</u>
100 psig	1.0105
200 "	1.0206
300 "	1.0313
400 "	1.0422
500 "	1.0537



The working conditions are stated to be:

Temperature Range	+20°F to +50°F
Line Pressure	250 psig
Flow Rate	26 MMCFD (Max) 3MMCFD (Min)

H. J. S. Fraser,  
Chief,  
Electricity and Gas Division,  
Standards Branch.

c.c. Rockwell Mfg. Company of Canada Ltd.  
Mr. A. Park, D.I. of Calgary E&G  
Mr. H. A. Waterhouse, D.I. of Edmonton E&G  
Mr. R. H. McKay, Regional Manager, Winnipeg.

*c.c. Mr. W. P. McEwen on Sept 14/69*

