Operating Notes:

Local/External Operator Interface

1. The flow computer is designed to support either the local operator interface or an external operator interface via the %R data table. The flow computer application is not inteded to run both types of operator interface simultaneously, but it does not prevent the user from doing so. If both the local operator interface and an external operator interface are running, the most recent configuration change from either operator interface takes precedence. Also, the external operator interface cannot view configuration changes made by the local operator interface.

Hardware and Firmware Requirements

2. The flow computer application program requires either the IC693 640K PCM (IC693PCM311C) or the IC697 PCM (IC697PCM711F) with a 256K expansion memory board (IC697MEM717) running release 2.50 or later PCM firmware.

Restrictions and Open Problems:

Process Units

1. The flow computer expects all configuration inputs to be given in English units and displays all output values in English units. The AGA.PGM source code must be modified to use Metric units. All input values must be converted to English units prior to calling the calculation routines. All output values returned by the calculation routines must be converted to Metric units prior to display.

Supercompressibility

2. The NX–19 ”Molal Analysis” and ”Heating Value” methods for calculating supercompressibility are not supported in this release of the flow computer.

Orifice Temperature

3. The flow computer does not correct the flowrate for thermal expansion of the orifice. The Orifice Temperature Correction factor defined in the AGA3 algorithm is not used in the flowrate calculations.