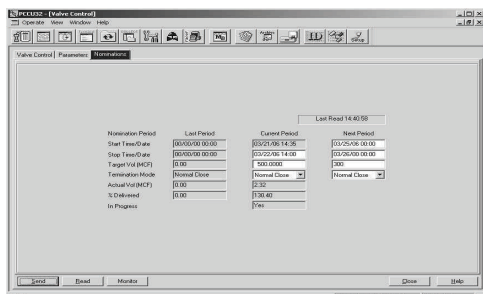


AUTOMATION OBJECTIVE

The Nomination of natural gas (delivery of a specified volume over a defined period of time) is often a requirement for gas sales. Over deliveries and under deliveries usually invoke contract penalties and a loss of revenue. It is possible to achieve exact nomination deliveries when accurate flow measurement and reliable valve control are combined.



AUTOMATION SOLUTION

The **Totalflow** XSeries Flow Computers and Remote Controllers are available with a Nomination Application. The Nomination Application continuously inputs set points to the Totalflow Valve Control Application to position the control valve to maintain a Flow Rate that will result in delivery of the nominated volume. If flow is interrupted for any reason (a compressor goes off line or a delivery station must be shut-in), the Nomination Application will automatically operate to make up the nomination loss when flow resumes. Additionally, an override function can be selected which will limit a secondary parameter to a user defined limit. For example, while primarily maintaining flow rate, a pressure override can be used to ensure pressure entering a pipeline system. At a wellhead this same scheme can be used to shut-in/bring-on flow based on a compressor on-off state. Three nomination volume periods can be viewed: Last, Current or Next. All nomination control functions, as well as nomination volumes can be accessed locally with Totalflow PCCU software or remotely with Totalflow WinCCU software or SCADA Vantage. The

Valve Controller has the option to be used with a Digital Valve Actuator or an Analog Valve Actuator.

SOLUTION BENEFITS

- **Nominations Made, Revenues Maximized:** nomination control insures that all of the contracted volume is delivered.
- **Safe Environment:** control override prevents unsafe delivery of pressures and flow rates into the gas system.
- **Easy Installation:** mount XSeries; connect solar panel; connect wiring to sales valve.
- **Simple Start-up:** enter initialization requirements with PCCU software or WinCCU software or SCADA Vantage.
- **Low Power Electronics:** helps extend battery life, reduces maintenance expense, allows for more run time.
- **Extendable:** any XSeries product can also provide flow measurement, alarming, data logging, level measurement, remote communications, and plunger optimization while performing **Nomination Control**.

Totalflow Recommended Equipment:

- Qty 1 – Model XSeries Flow Computer or Remote Controller with Solar Panel
- Qty 1 – PCCU Laptop Communication Software
- Options – Radio for Remote Communications; WinCCU Remote Host Software

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www.abb.us
www.abb.com



ABB Inc.
Totalflow Products
7051 Industrial Blvd.
Bartlesville, OK 74006
Tel: (918) 338-4888
Fax: (918) 338-4699
(800) 442-3097

For more information,
please contact your
local ABB Totalflow
representative or visit
our website.