



CALSCAN

precision
temperature pressure
& flow measurement

BEAR CONTROL SYSTEM

Electric Solutions for Problem Fuel Gas

Calscan Energy has developed the low power Bear Control System for new and existing separators. This system solves many problems the oil industry is having with pneumatic controls operating on fuel gas. Our control system is also designed to reduce the total cost of ownership through minimal installation and ongoing maintenance expenses.

Solutions For:

- **Low pressure fuel gas** - Not enough gas pressure to operate pneumatic controls.
- **Wet fuel gas** - Contaminated pneumatic controls causing high operating expenses.
- **Using propane for fuel gas** - High operating cost with pneumatic controls venting propane.
- **H₂S in fuel gas** - Corrosion to pneumatic instruments, increased safety and elimination of odor for operators and land owners.
- **Operator safety** - Eliminating venting decreases the chance for an explosion.
- **Depleting Wells** - Gas production will be increased by not venting and keeping all gas in the pipeline.
- **Reducing Greenhouse Gases** - Eliminating the need to vent unburned methane gas into the atmosphere. Methane is approximately 20 times as strong as a greenhouse gas as CO₂.



Central Alberta Installation with our Bear Cyclone Separator

Control System Specifications

Control Panel

- Class 1 Div 2 CSA Approved
- Integrated PLC for control & ESD system
- PLC programming for turn key solution and easy install
- PID control available
- Solar Power system is engineered for 10 days reserve at -40°C with an average of 2 hours per day of sunlight
- Electronics rated for -40°C
- RS-485 Modbus communication available

ESD System

- Pressure Switches
- Level Switches
- Hydraulic or Pneumatic ESD Fail Safe Actuator with low power solenoid.

Level Control

- Two or Three Phase
- Displacement or Float type level control
- Electric Explosion Proof dump valve

Pressure or Flow Control

- PID controlled Explosion Proof electric actuator with choke valve

Chemical Pump

- Electric explosion proof Injection Pump
- Methanol and/or chemical injection with individually scalable rates.



Bear Controller Retrofit



Electric Actuator



Electric Chemical Pump



Keeping The Sky Blue

E-mail: sales@calscan.net
Website: www.calscan.net
Phone: (780) 944-1377
4188 93 Street
Edmonton, Alberta, T6E 5P5