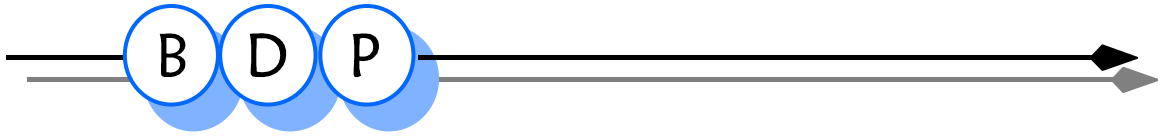


Barry D. Payne & Associates Inc.



*Serving the Chemical,
Petrochemical, and
Gas Processing Industries*

Control Solutions and Plant Optimization Strategies

A faded background image of an industrial plant with several tall distillation columns and piping. Overlaid on this is the BDP logo and text.

*BDP On Target Solutions
deliver performance based strategies
for your regulatory control system
and advanced process control needs.*

On Target Solutions!

Strategies for Today!

Services for Tomorrow!

Control System Performance Strategies

Your Single Source for Control System Solutions and Process Control Technology

Comprehensive Services & Solutions from design consultation, through system configuration, to full-scope installation.

Barry D. Payne & Associates Inc. offer Advanced Process Control, System Integration, and Instrument Engineering Services for DCS, PLC, HMI, TMR, & Hybrid Systems.

Building your Solution, Block by Block!



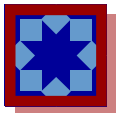
Advanced Process Control Technology

Control System



Expertise & Engineering

Instrument Engineering Services



To deliver full-scope Control Systems and Process Control Technology!



including.....

- ◆ **Advanced Regulatory Control** Strategies to provide high performance without the high cost.
- ◆ In-plant **loop tuning**, control troubleshooting, and optimization studies to maximize performance.
- ◆ Real-time **Operator Training Simulators** to improve personnel response to process upsets.
- ◆ Process Control Analysis and **Process Control Description** development to formalize procedures.
- ◆ Multi-vendor Control System **integration services** to support your plant wide system strategies.
- ◆ Control Network & device integration support for system administration and **change management**.
- ◆ System troubleshooting, maintenance training, and **demand support** including performance audits and document management.
- ◆ Cross-platform, multi-vendor engineering support to provide **sole source responsibility** for your Control System needs.
- ◆ Field device specification, data sheets and purchasing to manage **equipment selection** from sensors to system.
- ◆ Project execution, resource planning, and procurement services for **full-scope system delivery**.
- ◆ Installation services and **control system commissioning** to deliver a complete project.



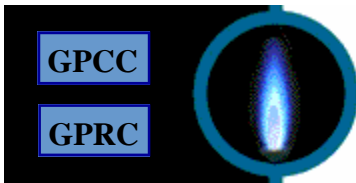
Processing Plant Performance Strategies

Scalable Advanced Process Control Technology for your current Control System

Plant performance strategies from site evaluation, to strategy design, through commissioning for improved bottom-line results.

Barry D. Payne & Associates Inc. offer Licensed Technology Products & Specialized Advanced Process Control Strategies that deliver plant improvements today!

Performance Strategies



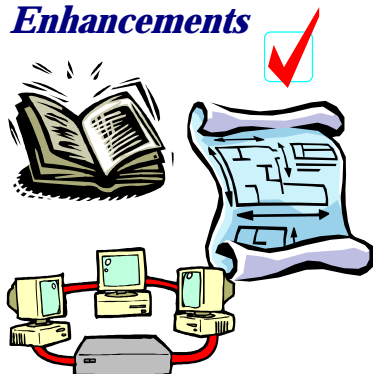
- ◆ Choose from field-proven Technology Products that improve product recovery, reduce energy costs and provide robust response to plant upsets.
- ◆ BDP *On Target Solutions* for Gas Processing include C1/C2 Composition Control, Plant Rate Control, NGL Fractionation Control, Advanced Treating, and more.
- ◆ Or together we can develop specialized ARC/APC solutions that deliver performance improvement comparable to available Multi-variable Control packages at less than 25% of

Scalable Platforms



- ◆ BDP *On Target Solutions* are scalable strategies that have been implemented on various platforms from Multifunction Loop Controllers, to Programmable Logic Controllers, to Hybrid Systems, to Distributed Control Systems.
- ◆ *On Target Solutions* can be implemented with your current control platform today, and easily migrate to newer systems as your plant grows.

Enhancements

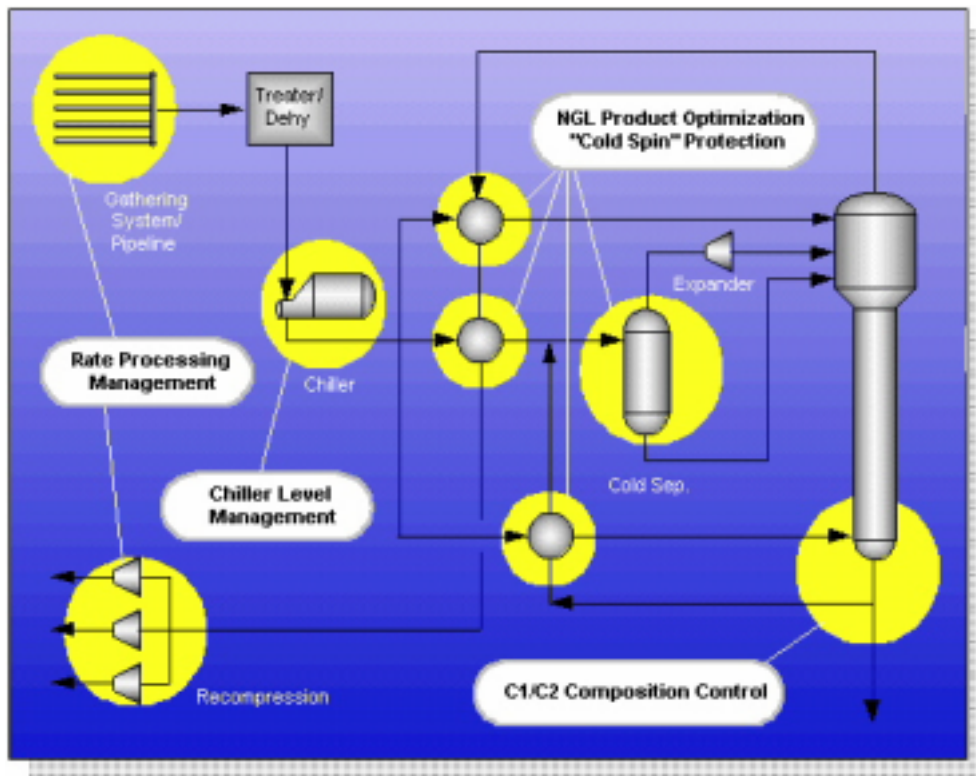


- ◆ Enhance your plant performance with services that benefit your Operator and technical staff, including dynamic training simulators, automated procedures & interlock testing, process control descriptions, loop tuning & troubleshooting, change management procedures, and training manuals.
- ◆ Then capture technical expertise, reusable engineering, and plant standards in a friendly media solution that consolidates your plant manuals & procedures. Choose **Plant Data Book^e** from Barry D. Payne & Associates Inc.

Realize Cryo Plant Hidden Potential and Profits with BDP Inc. Gas Processing Performance Strategies !!

Rate Management Processing – automatically adjusts Plant Rate to meet Inlet or Residue Pressure and Processing Volume requirements at lowest practical Tower pressure to maximize recovery. Limiting logic maintains Tower and Recompression conditions to safe levels.

C1/C2 or C1 Composition Control – advanced control of NGL product composition provides on-spec operation day or night, attended or unattended. Strategy utilizes onstream analysis (single or multi-stream), Tower pressure, Expander operating conditions, and several other factors to reduce overstripping losses and Methane give-away. Proven by years of service at several sites.



“Cold Spin” Protection – Cold Separator liquids rate is used to drive a Tower flooding prevention strategy, allowing operations to “push” temperatures colder around the clock. This strategy reduces low recovery operation due to cold spin and subsequent warming up.

Chiller Level Management – reduces or eliminates Chiller propane “carry-over” due to poor level control during load change, permitting operation at efficient covered tube bundle levels for fuel savings and maximum capacity.

**Maximize the return on your control system investment.
Install On Target Solutions today!**

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Serving Clients Since 1984
WE MAKE IT WORK!

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