



AUTOMATION & CONTROLS

EXPERTISE

Basic Systems Automation specializes in the oil and gas industry. From simple machine to complete turnkey automation, Basic Systems provides dependable and reliable automation solutions.

Engine control and station control have been the main focus of the Automation Group from its inception. From panel fabrication all the way through start-up and commission, Basic Systems engineers/technicians have the experience to produce control systems that are user-friendly and reliable to meet the Client's operating requirements.

Keeping with our Client's infrastructure, our engineers/technicians work with many of the control system products available to date.

SYSTEMS SPECIFICATIONS

Basic Systems Automation Group has the process understanding to provide our Clients with a detailed control system document as well as hardware and network specifications. Through our expertise and guidance, these documents assist our Clients in creating their own in-house standards of a control system infrastructure consistency.

TRAINING

The job is not complete until the training is done. Our Automation Group provides the materials needed in training on site personnel on the control system implemented. From on the job teaching to class room size training of the process, controls and hardware.

COMMISSIONING

Commissioning is just part of the work required in assuring the control systems will work time and time again and assist in a successful start-up. Our commissioning documentation includes:

- Site acceptance Process functional control document
- Device Calibration sheets
- HMI, Panel hardware and field device interface function document
- Alarm and Shutdown list (including setpoints)

COMPRESSOR UNIT CONTROL PANELS

Drivers:

Reciprocating Engine

Caterpillar, Waukesha, Cooper, Superior, Dresser-Rand

Motor

Siemens, Toshiba

Compressors:

Ariel, Cooper, Dresser-Rand, Gemini

Capacity Control:

ACI Services, eRCM Express Solution Provider



AUTOMATION CAPABILITIES

BASIC SYSTEMS, INC.

STATION PROCESS CONTROL



Process Control Panels:

- Station Control
- Emergency Shutdown Systems
- Measurement and RTU Systems
- Dehy Controls
- Generator Control
- Well Pad Control
- H₂S System Controls
- Thermal Oxidizers
- Recycle Flow Control Systems
- Pipeline Main Line Valves
- Remote IO
- Truck Loading

AUTOMATION CAPABILITIES

BASIC SYSTEMS, INC.

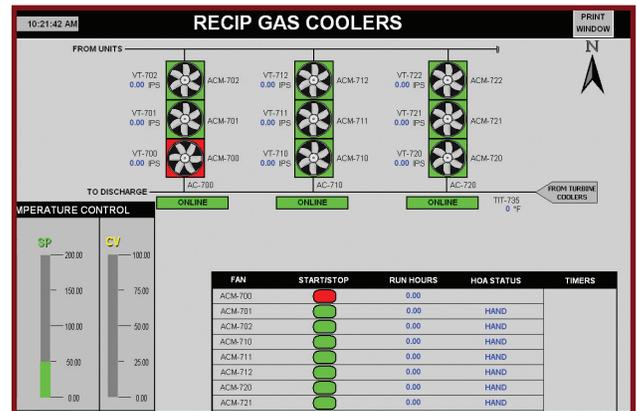
AUTOMATION SERVICES

Design:

Control Panels
Control System Narrative
Cause and Effect Chart
System Architecture
Network Topology

Programming & HMI Development:

Allen Bradley / Rockwell PLC / HMI
Siemen PLC / HMI
Schneider PLC / HMI
Wonderware Certified
Citect
Emerson DeltaV
Emerson ROC
ABB Totalflow
Control System Upgrades/Migrations



On-Site Service:

Start-up and Commissioning
Training
Consulting



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