



PLEXAL GROUP

Process Experience

- Multi-phase separation
- Water handling and injection
- Gas lift, dehydration and injection
- Wellhead platforms
- Subsea completions
- Gas compression
- LNG and LPG
- Tank farms & storage silos / bins
- Gas transmission
- Water transmission
- Blending
- Calcination
- Precipitation
- Fractionation
- Crushing, screening, stacking, reclaiming
- Flotation
- Magnetic separation
- Concentrators

Sample System Vendors + Products

- Allen Bradley - PLC2, PLC5, SLC500, MicroLogix, ControLogix, RSLogix, RSView
- Bristol Babcock
- CCC
- CDS Engineering - Separation Technologies
- Citect V3, V4, V5 and V6
- ControlWave Micro
- Emerson - Delta V, Control Valves and Field Instruments
- GE Fenec 90-30 and 90-70
- Honeywell - TDC2000, TDC3000, TPS, FSC, Experion, Field Instruments
- LAN technologies - Ethernet, Fibre, Wireless
- Modicon - 984, Micro, Quantum
- Network Technologies - Cisco and Hirschmann routers, switches
- Operating Technologies - Windows 2000, XP, 2003, Unix, Linux
- Samson Control Valves
- Security Standards - ISO 17799, ISA SP99
- Security technologies - SonicWall, CheckPoint, VPN
- Siemens; S7-300, S7-300F and S7-400
- Solar Turbotronics
- Speedtronics MkII, IV, IV+ and MkV
- Triconex - V6, 7, 8, 9 & 10, MSW & TS1131
- Yokogawa - Centum CS, CS3000, Prosafe, Prosafe RS, Field Instruments
- WAN technologies - Frame, DSL, Satellite, Radio
- WonderWare V7.1, V8 and V9
- Valtek Control Valves

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Focus Areas

Production Efficiency

- Production de-bottlenecking; combining advanced control schemes with process equipment modifications using staged deployment strategies for early return on investment
- Low impact implementation strategies
- Operating expenditure reduction
- Improved plant stability, run time, start-up durations and product quality

Control & Safeguarding Upgrades

- Technology upgrades to realise production efficiency opportunities
- Maximising life expectancy for lowest outlay
- Partial and complete technology upgrades/change outs - hot cutovers
- Field Instrumentation including all facets of hazardous area management

PCS & New Developments

- Control, SCADA and safeguarding EPC
- IEC61511 compliance if required
- 3rd party vendor integration

Burner Management Systems

- Deployment of code compliant software and hard-wired based systems
- Integration with plant wide control system

Turbine/Compressor Controls

- Implementation of advanced control schemes and condition monitoring
- Integration with plant wide control system
- Improved stability and performance
- Upgrades

Plant Business Integration

- Efficient and transparent production reporting to corporate
- Near real time production monitoring and analysis tools
- Low cost solutions for marginal to medium sized developments

PCS Security

- Bridging the gap between corporate I.T. and PCS security
- Pragmatic improvements to internal and external security risks
- Management plans for ongoing security patch implementation

Support

- Control & safeguarding system preventative maintenance and 24x7 support
- Production efficiency monitoring
- Hazardous area and IEC 61511 management

Marginal Oil & Gas Field Development Roadmaps

- CPP, wellhead, FPSO, FSO and subsea configuration options and selection
- Process and equipment selection and configurations for separation, gas lift, gas re-injection, oil and gas export, ESPs, well testing, waterflood, water treatment/handling, mercury and arsenic handling

Oil & Gas Field EPC Technical Management

- Continue from the field development roadmap to optimised production
- Provide multi-discipline technical custodianship during EPC phase
- Independent commissioning and commissioning management