

PCS / SCADA for New Compressor Station (CS-09), BANAGAS, Bahrain

Oil & Gas

Gas Processing Plant

Gas Compressor Station

End User: Bahrain National Gas Company
Customer: JGC Gulf International Ltd.
Segment: Oil & Gas

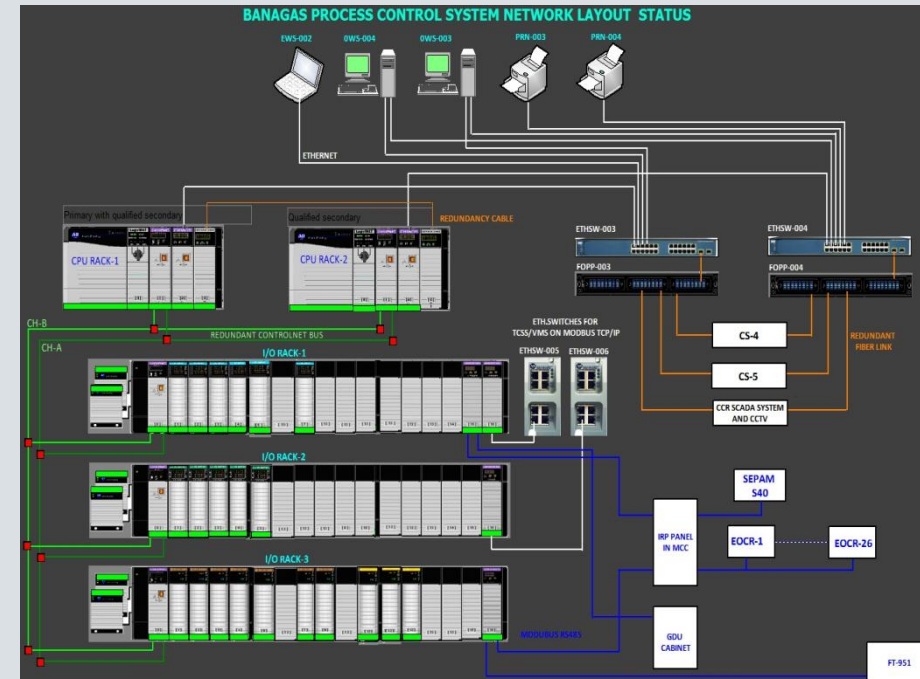
Short description of the solution

Redundant ControlLogix System (1756-L62) communicating to FTView-SE SCADA System on High Speed Ethernet/ Fiber Optic communication.



Requirements :

- In 2012, BANAGAS awarded the contract for constructing a new Compressor Station CS-9 at their Jebel-Al-Dukhan facility to M/s JGULF. This Compressor Station would collect associated gases from various Gas Oil Separations plants & the same shall be compressed and routed to Central Gas Plant (CGP).
- JGULF in turn awarded the PCS & SCADA Contract to Prudent Solutions WLL; who are the Recognized System Integrator for Allen Bradley / Rockwell Automation for remote automatic operations of the Compressor Station.



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Founding year:

1999

**Rockwell
Automation**

Recognized Systems Integrator

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Implementation:

- AB ControlLogix based Process Control System
- Redundant Controller, Communication Interface, Power Supply with Simplex I/O's
- 2 nos. of Modbus-RTU Serial and 2 nos. of Modbus TCP/IP interface links
- 2 nos. of Local Operator Work Stations (SE Station) at CS-9
- Duly wired IP-55 rated System & Marshalling Cabinets, Telecom Cabinet (with Redundant layer-3 Managed Ethernet switches) & SIL-3 Interposing Relay Panel (IRP)
- Rockwell's FactoryTalk-View SE Server-Client based SCADA System with Redundant Servers (DL380-G7), 2 nos. of Clients, Engineering Station, Redundant Layer-3 Managed Ethernet Switches, Hardware Fire Wall, Network Access Storage (NAS) with Report and Alarm Printers

Benefits for the customer:

- The centralized control system made the overall operation much easier & reliable.
- Completely integrated with all third party systems (TCCS, GDU, MCC, Flow-meters) providing operators with comprehensive overview of the operational health of CS-09.
- Optimized productivity of operators and lower risk using role-based access to process control system.
- Highly Flexible / Expandable for future compressor stations

