

# GPIC - Upgrade & Enhancement Control System for Demineralization Plant

**Petrochemicals**

Water Treatment

DM Water Automation



**Contact:**

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**Founding year:**

1999

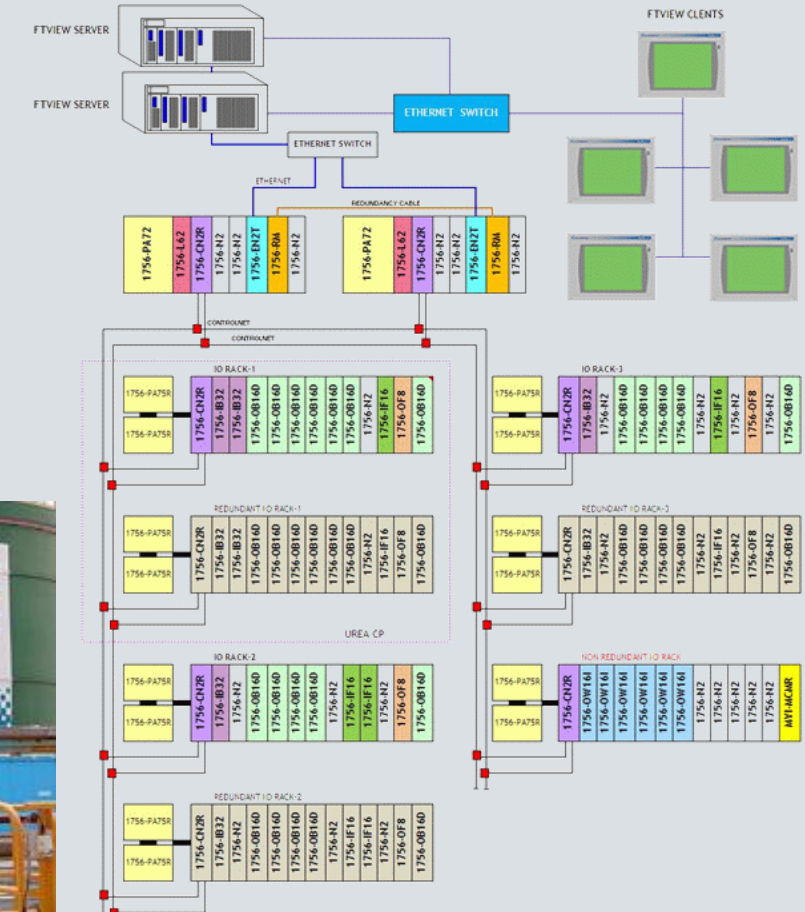
Solution Partner: Prudent Solutions WLL  
 Customer: Gulf Petrochemical Ind. Co.  
 Segment: Water Treatment

**Requirements of the customer:**

- GPIC complex has a Demineralization (DM) water plant which was constructed and commissioned in 1985 with associated PLC and control systems. Later, additional equipment with additional PLC were added in DM plant during 1988 and 1998.
- The PLC units & allied control instrumentation including CAM Timers became obsolete and required to be upgraded to a latest, field-proven PLC with Redundancy at CPU, Communication, Power Supply and IO level.
- Prudent Solutions WLL (PSL) was awarded the contract to supply new redundant PLC system based on Allen Bradley ControlLogix architecture.

**Short description of the solution**

AB ControlLogix based Redundant Control System with Factory-TalkView SE SCADA System.



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Recognized Systems Integrator

## Implementation by the Solution Partner:

- IO Redundancy using SIL-2 Boards
- HMI Graphics development as per new ASM (Abnormal Situation Management) Standards & Guidelines

## Benefits for the customer:

- High Availability / Reliability
- Easily expandable
- High flexibility and uniformity
- Ease of Operations

