PCS for Tatweer New Well Manifolds Project, Awali Fields, Bahrain



Contact:

Prudent Solutions WLL P. O. Box 11091, Manama, BAHRAIN Phone: +973 1745 6180 Fax: +973 1745 6190 www.prudentsolutions.net

Founding year: 1999



End User: Client: Segment: Tatweer Petroleum, Bahrain JGC Gulf International Ltd. Oil & Gas

Requirements of the customer:

- In 2012, Tatweer Petroleum undertook field development project to increase the capacity of the oil and associated gas production in the Bahrain Awali field & planned to install fifteen (15) New Well Manifolds to meet this increased production target. Each of the New Well Manifold was designed to handle 3,000 bbl/day oil, 20,000 bbl/day produced water, and 20 MMscfd gas. M/s WorleyParsons did the front end engineering for this project & the EPC contract was awarded to MCSC/JGC Intl.
- As a part of this project, JGC Intl. was engaged in the automation of Well Manifolds and tank batteries. In this connection, M/s Prudent Solutions WLL (MAC- Main Automation Contractor for Tatweer) was awarded the contract to supply & commission the Process Control System (PCS) for all fifteen (15) New Well Manifolds for remote automatic operations.

RUDENT INVESTMENT & STEWARDSHIP OF BAHRAIN'S NATIONAL RESOURCE

Oil & Gas

Oil Extraction

Well Manifolds Controls

Short description of the solution

15 independent ControlLogix Systems with PaneView-Plus communicating to ICONICS SCADA in the Control Room.



PCS for Tatweer New Well Manifolds Project, Awali Fields, Bahrain



Prudent Solutions WLL P. O. Box 11091, Manama, BAHRAIN Phone: +973 1745 6180 Fax: +973 1745 6190 www.prudentsolutions.net

Bypass Diagnostics

> Production Header

Tags Visibility PIC-101E

PIC-1010

Founding year: 1999



Implementation by the Solution Partner:

PCS System Design & Configuration compliant to Tatweer-Oxy ATG Standards.

HMI Design as per ASM (Abnormal Situation Management) Standards and OXY – Production Facility Best Practice guidelines.

GOSF

PIC-101B

PIC-101A

-200.00 PSM

V-0011

Level Deviation Alarn

PT-101

55.00

LT-101

BO

FT-102

FT-101

TT-101

-100.00 %

LT-102

Close

XV-103

-20.00 MMscfd

-22.00 MMscfd

-100.00 DEGF

0.0 %

PV-101E

0.0 %

Trends

Pressure Bypass

-200.00 PS

PT-102

Benefits for the customer:

- Ease of Operations
- Highly Modular

Help ?

FQ-102-Flow Total

Relief Header

FQ-101-Flow Total

Ass. Gas Pipe Line

Concrete Drain Tank

Alarms

quid Booster Pump

Close

USER

DEFAULT

XV-102

LIC-102B

0.0 %

LV-102B

Level

Pressure

- Reduces maintenance and downtime costs
- Plant-wide control with a single controller platform

