ABDELMALIK MEDAB

Instrumentation Engineer/ Metering Engineer

OUARGLA 30013, ALGERIA abdelmaik.medab@hotmail.com **(+213) 675-150-515**

Summary

Instrumentation and Metering Engineer working in the biggest oil and gas facility in Algeria, with over 2329 workers, and 23 % of the Algerian hydrocarbon production; looking to obtain a challenging position in the field of Instrumentation, with major responsibilities that will effectively utilize my troubleshooting, designing, developing, installing, managing and maintaining equipment which is used to monitor and control engineering systems, machinery, and processes.

Professional Experience

SGS — October 2016- Current

Instrument and Metering Engineer
Project: El Merk oil, and gas Central Processing Facility (Onshore) -Algeria

SONATRACH — January 2016 To September 2016

Junior Instrument and Automation Trainee
Project: SONATRACH Hassi R'mel Gas Boosting Facility (Onshore)-Algeria

Responsibilities

Conducting a team of 6 persons, involved in Calibration, installation, commissioning, and Troubleshooting of all types of field instruments, Startups, and Shutdown strategic; development of safety procedures. Review Un-Priced Purchase order issued by Procurement Department. Actively participate in meetings, and manage the production uncertainty of metering, and allocation system, also arrange Factory Acceptance Test (FAT); Site Acceptance Test (SAT)

Capabilities

General Instruments:

Command the Preventive and corrective maintenance (PM/CM) of over 3620 field instruments containing Pneumatic, Hydraulic, Mechanical, and Electronic Instruments including Pressure, Level, Temperature, Flow Transmitters (PIT-TIT-FIT-LIT), Switches, Detectors, Control Valves (Actuators/ Positioner), emergency shutdown valves (SDV/BDV), Pressure Safety/Relief valves (PSV/PRV/PCV), Centrifugal Pumps, Gear Pumps, Instrument tubing, and Fittings.

Control System:

Experience in review of DCS /SCADA/ PLC system Architecture drawings, graphics, and PLC Logic diagrams, Reviewing of Panels, Marshaling and System Cabinets drawings. Reviewing and checking of Control Panel, datasheets, Cause & Effect, F&G layout

Junction box Termination drawing, Cable Routing, Cable Tray layout SLD, Power distribution, and termination wiring drawings as per the requirements. loop checking, and testing of field instruments, and trial operation activities, prepared loop folder and test reports.

Performing minor and major maintenance of rotating equipment (Gas Turbines & Centrifugal Compressors, Pumps & Turbo Expander) and their auxiliaries; experience on MKVI, MKVIe BKR control systems (GE MS5002/MS5001), Woodward/Micronet.

Vibration Monitoring System:

Providing on-site interpretation of data and technical instruction using the Bentley Nevada 3500 Machinery Monitoring and Protection System (Vibration and, temperature Probe Installation, health checking, and data curve interpretation)

Preventive maintenance of firefighting safety system (F&G) including inspection, testing, and simulation of all systems (CO2 system, water/deluge/Foam system), Fire & Gas Detection Devices [Gas Detectors (GD)-Flame detectors (FD)-Smoke Detectors (SD)-Heat Detectors (HD)]

Metering / measurements

Providing advanced technical support to customers for the maintenance of Metering Systems, Human-Machine Interfaces (HMI), Integrated Control and Safety Systems (ICSS), Flow computers (FC), Gas Chromatographs (GC), Flowmeters (Orifice, venturi, Turbine, Ultrasonic, electromagnetic, and Coriolis, densitometer, Flare Metering Systems.

Assure the integrity of the well test, Multiphase Flow Meter (MPFM) metering system, gas lift, and water injection metering and proffer improvements where necessary

Calibration, and verification for Fiscal and Custody Transfer Metering system, Carrying out Water Draw prover calibration at the site for different types of provers (Compact / Bi-Directional Pipe / Master Meter). Proving for Flowmeters to maintain the accuracy of the international standards.

Calculation of Petroleum Quantities. (Mass flow, density, and volume flow measurements), Density determination, Sediment, and Water (BS&w), Water Cut measurements; Validation/Certification of Calculations, traceability, and Record-Keeping

Skills

Industrial Communication networks and Protocols: PROFINET/ PROFIBUS DP/ CANOpen/ Foundation Fieldbus/ Modbus (RTU/TCP)/ HART/ Vnet-IP.
Yokogawa Distributed Control System (DCS) (CENTUM VP/ ProSafe-RS) Data Historian (Exaquantum) Plant Resource Manager (PRM), OPC Server; Siemens (TIA Portal/ STEP7/ WinCC).

HSE: use of Personal Protective Equipment (PPE), Confined Spaces, and Area Classification. Standards (IOSH, NEBOSH, AIHA, ATEX, CE, IECEx)

Drawings: Process & Instrumentation Diagram (P&ID), Process Flow Diagram (PFD), Electrical Diagram, Hookup Drawings, Loop Drawings & Loop Philosophies, Procedures

- API MANUAL OF PETROLEUM MEASUREMENT STANDARDS (MPMS) chapters
- ISO (100 /10790 /2714 /2715/ 3170/ 3171/ 3675/ 3735/ 4006 /17025/ 9001)
- BRITISH STANDARDS INSTITUTE (1042/ 1904/ 7405/ 7965)
- AMERICAN GAS ASSOCIATION AGA (No.7 / No.8 / No.9) OIML R117 & 138
- Measurement Software: Kelton Flocalc/ Mathcad/ prove it / TESTit / CALCit

Education

Master's degree in Electrical Engineering **Sep 2015 to July 2017**
KASDI MERBAH University (Ouargla State), Algeria

Bachelor's degree in Electronics Engineering – **Sep 2012 to July 2015**
KASDI MERBAH University (Ouargla State), Algeria.

High School Diploma in Experimental science - **June 2012**
ALI MELLAH High School (Ouargla State), Algeria.

Computer proficiency & Languages

Operating System: Windows /Linux
Software Packages: MS-Office (Word, Excel, PowerPoint) and outlook, C++, CAD

Arabic (Mother Tongue) ***English*** (Intermediate) ***French*** (Intermediate)

Personal Information

LinkedIn: https://www.linkedin.com/in/abd-el-malik-medab-81767b195/
Nationality: Algerian
Marital status: Single
Passport N: 182173637 Expiry date Jun 07th, 2028.
Algerian driving license category B.