KENEXIS **Professional Profile**

Mohammed Alzinati, MEM

Senior SIS / FGS Engineer, Kenexis

Fields of Competence

Safety Instrumented Systems (SIS)
Fire and Gas Systems (FGS)
High Integrity Pressure Protection Systems (HIPPS)
Leak Detection System (LDS)
Safety Integrity Level (SIL)
Control Valve and On-Off Valve
Electronic Transmitters
Fire and Gas Detectors
H2S / CO Analyzer Systems
Machine Monitoring Systems (MMS)
Distributed Control Systems (DCS)
Instrumentation and Control

Experience Summary

Mr. Alzinati has over nine years of experience in instrumentation and control engineering – including instrumented safeguards such as safety instrumented systems (SIS), and fire and gas systems (FGS). Mr. Alzinati is a Senior Engineer leading Kenexis Middle East operations. Mr. Alzinati began his career with CH2MHILL Engineering, Abu Dhabi, UAE, as a control systems engineering performing Front End Engineering Design FEED projects, and Detailed Engineering Projects. Mr. Alzinati has been Involved in the design of instrumentation & control systems for Oil & Gas, Water, Petrochemical FEED (Front End Engineering Design) & Detail Engineering. Mr. Alzinati's expertise is built on understanding and developing the specifications, the scope of work for each project, datasheets, cause and effect diagrams, material take-off, technical bid evaluation, input / output signals counts list and the piping and instrumentation diagrams (P& IDs).

Credentials

M.S., Engineering Management, Abu Dhabi University, 2013
B.Sc., Electrical/Electronic Engineering, Ajman University, 2007.
Registered Project Management Institute (PMI)

Professional Affiliations

Member of (ISA) International Society of Automation.
Member of PMI (Project Management Institute).
Attended PMP (Project Management Professional) course, Cambridge Institute Abu Dhabi, 2010.
Attended course of Smart Plant Instrumentation (In tools) Customization & Data Management Training Abu Dhabi,

Key Assignments

Preparation of Instruments Index, Instrument Data Sheets, Instrument I/O List, and Engineering Documents like logic diagrams, Cause & Effect diagram.

Technical Bid Evaluation TBE for various field instruments. Preparation of Instrument Cable schedule & block diagram, Control loop diagrams and Interconnection diagrams. Preparation of Instrument JB Schedule & Instrument Installation Design basis. Participating for all activities relating to the discipline. Attending the internal and client weekly meetings, follow up the squad check & the projects progress. Sizing of orifice plates, control valves, safety-relief valves & various flow meters. Selection of correct type of measuring & control instrument, correct material of construction based on process conditions. Coordinate and Follow up with the other disciplines. Technical bid analysis & bid recommendation. Vendor drawings/document checking & approval, inspection & expediting including DCS FAT & SAT. Project monitoring, man-hour control, cost estimate & man-hour estimate.

Key Project

PROVISION OF ENGINEERING SERVICES FOR OIL FIELD DEVELOPMENT PLAN PROJECT (PLANT SITE - IRAQ), (Integrated Gas Processing Plant, SRU (Sulphur Removal Unit), CTMS (Custody Transfer Metering System, Desalter, Dehydrator. In Addition, Produced Water System and 3rd River Water intake System.

- Preparation of Fire & Gas cause and Effect, Control system scope work and instrument interface list, Fire and Gas Location layout, HSE philosophy, Operating / Control / Safeguard Philosophy, Data sheets for On-Off Valve, Control valve, Tagging procedure, Review SIL report and IPF, Instrument List, I/O List, Cause & Effect, Material Take Off, Technical bid evaluation, Scope of work and Layout.
- Co-ordination with vendor for licenser of Package like SRU PLC, Compressor PLC, CTMS system, Machine Monitoring System, LDS (leak Detection System), H2S/CO Analyzer, Multi Phase Flow Meter, HIPPS (High Integrity Pressure Protection System), control valve, TGS (Tank Gauging System), level, pressure, flow, temperature transmitters and tank gauging transmitters input
- Participating in HAZOP Meeting and SIL Classification Study, Control Cabinet Layout and Foundation.
- Preparing Specification for Instruments, On/Off Valves, DCS / SIS control System, Fire & Gas mimic panel, HIPPS System, Well Head Control System and Pig Signaler.
- Design and Study Integration between existing HONEYWELL system, WEATHERFORD and new YOKOGAWA PRO-SAFE system.
- Review P&ID for Wellpads facilities, Multi phase flow meter, Chemical injection Skid, Water treatment system and Water injection system.
- Design Custody Transfer Metering Skid, and HIPPS instruments with SIL 3 loop function
- Prepare control system architecture and Cause & Effect for DCS and SIS.

2009.

Key Projects - Continued

OIL FIELD FINAL DEVELOPMENT PLAN (PLANT SITE - IRAQ), Wellpads Export Crude Oil Design and Procurement. In Addition Water Injection System and Water Treatment System.

- Worked as responsible engineer for preparing Data sheets, Instrument List, I/O List, Cause & Effect, Material Take Off, Technical bid evaluation, Scope of work and Layout.
- Co-ordination with engineer Consultant and site team for the engineering part in data collection and site visits.
- Participating in HAZOP Meeting and SIL Classification Study, Control Cabinet Layout and Foundation.
- Preparing Specification for Instruments, On/Off Valves, DCS / SIS control System, Fire & Gas mimic panel, HIPPS System, Well Head Control System and Pig Signaler.
- Design and Study Integration between existing HONEYWELL system and new YOKOGAWA PRO-SAFE system.
- Design Custody Transfer Metering Skid, and HIPPS instruments with SIL 3 loop function

Oilfield Surface Facilities Development Detail Design and Procurement support (Plant Site – Iraq).

- Worked as responsible engineer for preparing data sheets, Technical bid evaluation, wiring and index through INTOOLs
- Coordination with engineer Consultant and site team for the engineering part in data collection and site visits.
- Coordination and site support for the engineering part during Construction and Project Commissioning activities by the contractor.
- Project SPI 2009 Originator for IO Lists (SSS, DCS, F&G, Serial), Instrument Index, Alarm & Trip Setpoint List, Wiring Interconnection diagrams, Instrument Loop Diagrams, Cable Block Diagram, Cable Schedule, Junction Box Schedule and Hook-up diagrams, I&C Checker for Squad checks for P&ID's and inter-discipline coordination with Process., Area Lead for VDR of System Vendor (Honeywell) control system allotment and design management including Pre and Post FAT IO assignment design and layout modifications as well as As-Built Changes.

Detailed engineering design for onshore oil field development project (Plant Site – Abu Dhabi).

- Worked as responsible engineer for preparation of various data sheets and wiring drawings.

Onshore Oilfield Facilities Project – Tanks Repair Job (Plant Site – Iraq).

- The work order scope includes the renovation and upgrading of the Tank No. 1 and Tank No. 3 in Degassing Station 4 in accordance with Site Inspection Report.
- Worked as responsible engineer for preparation of data sheets, MTO, interconnection and hook-ups.
- Review of Site Inspection Report and accordingly perform the General Engineering including generation of specifications and drawings.
- Preparation of the Material Requisitions (MR) for valves, Tank Instrumentation System and Breather Valves, and instrumentation bulk as required for the tank repair.

Residual engineering for construction of flowlines and wellhead installations in onshore fields (Plant Site – Abu Dhabi)

- Worked as responsible engineer for preparation of data sheets, specification, interconnection and hook-ups.
- Coordination between construction contractor and system supplier Yokogawa to update the engineering deliverables the existing Yokogawa DCS.
- Discuss with Client Abu Dhabi and field staff operation and maintenance of process facilities in order to fully understand requirements and reflect the same into the design / engineering, as applicable.
- Site visit report with all findings and conclusions of the visits and discussion with Client.

Detailed engineering service for an Abu Dhabi Oil Refinery early works.

- Worked as lead engineer, the responsibility includes site visits. Provide specific detail on projects and what you performed.
- Coordination between contractor and system Provider Siemens to update the vendor interconnection and loop drawing
- Site visit to collect data for the existing instruments and meet the operation engineer to check the connections as in RTU cabinet.
- Checked and updated existing interconnection and loop drawings required as a basis for the work.
- Discuss with Client field staff operation in the refinery in order to fully understand scope of work and reflect the same into the design as applicable.
- Mark-up and supervise As-built drawings during construction phase, and update relevant part of the existing drawings.

Detailed engineering service for Onshore Gas Production Facility OSBL package-A & B (Plant Site – Abu Dhabi)

- Instrumentation and control philosophy, identification of the available spare, identifying model number of the existing instruments, preparing data sheets and scope of work.
- Coordination between contractor and system Provider to update the vendor interconnection and loop drawing
- Site visit to collect data for the existing instruments and meet the site engineer to check the required data
- Discuss with client office engineer the DBM of work and implement the same into the design as applicable.
- Mark-up and supervise As-built drawings during construction phase, and update relevant part of the existing drawings.
- After completion of the site visits, submit to client a site visit report with all findings and conclusions of the visits and discussion with client.

Gas Production Company Engineering service for onshore & offshore production wells facilities (Plant Sites – UAE and Qatar)

- Worked as Instrument engineer for preparing data sheets, Technical bid evaluation, wiring, Hook-up, Installation details and index through INTOOLs
- Update the final drawing from As-built mark-up drawings during construction phase, and update relevant part of the existing drawings. Preparation of Instruments Index, Instrument Data Sheets, Instrument I/O List, and Engineering Documents like logic diagrams, Cause & Effect diagram.
- Preparation of Instrument Cable schedule & block diagram, Control loop diagrams and Interconnection diagrams. Preparation of Instrument JB Schedule &

- Site visit to check the availability for new signal and identifying Instrument Installation Design basis. Participating for all activities relating to the discipline.