

200001-CME-4DGOS-E-1985 Freelance Process Advisor

Holds a B. Sc. in Chemical Engineering and has 35 years total experience in the oil & gas industry worked in the UK and in the UAE, involved in plant monitoring and maintaining production quality to meet the company's safety standards, engineered and enhanced plant design, performed minor & major plant modifications, designed and modeled plant process using process simulators. Troubleshooting, production and yield enhancement. Participated in technical and safety audits, chaired HAZOP meetings, performed QRA to ensure compliance with safety standards, involved in preparation of Front-End Engineering Design (FEED), and prepared Statement Of Requirements (SOR), Managing subordinates and training of fresh graduate engineers.

PERSONAL DATA

Nationality : Bahraini
Birth Date : 16/02/1957
Gender : Male
Marital Status : Married

EDUCATION

: B. Sc. in Chemical Engineering, University College of Swansea U. K., 1985

LANGUAGES

Arabic : Native Language
English : Good

COMPUTER SKILLS

: Windows, MS Office, Internet

CHRONOLOGICAL EXPERIENCE RECORD

Dates : From Dec. 2016 till now
Job title : Freelance Process Advisor
Job Description : A Process Advisor providing plant problems solutions, such as plant de-pressurization sequence, and acid gas removal foaming, gas drying problem solving.

Dates : From May 2014 till Nov. 2016
Employer : ABU DHABI GAS LIQUEFACTION COMPANT Gas (ADGAS) - U.A.E.
Job title : Process Advisor

Job Description :

- Promoted to Quality and reliability department as a Process Advisor for the company, my duties were to provide an expert advisory role to all ADGAS division on process engineering related tasks.
- Heavily involved and participate in incidents investigation (Process related) and liaise with relevant department to highlight and to follow-up the remedial actions.
- Act as Independent Competent Person (ICP) to carry out studies in order to prevent repetitive plant & equipment failure using data analysis, reliability modeling and prediction, using fault tree analysis with the aid of root cause failure and root cause analysis (RCA, RCFA).
- Work closely with Engineering Operations, and maintenance departments to analyze assets utilization, equipment effectiveness, and extending plant remaining life.
- Chaired all company's HAZOPS, perform and involved in quality risk assessment (QRA) using Apollo technique with the recommendations for remedial actions.
- Applying TRIZ innovation process to resolve plant design anomalies.

Dates : From Feb. 2009 till May 2014

Employer : ABU DHABI GAS LIQUEFACTION COMPANT Gas (ADGAS) - U.A.E.

Job title : Process Engineering Team Leader

Job Description :

- Rejoined the Engineering & Technology division as a Process Engineering Team Leader. Responsible for managing the process engineering section for the production of high-quality engineering work by supervising two senior process engineers and nine process engineers in providing process engineering support to the whole plant to ensure safe and reliable operation of the LNG plant, the job was also entailed of the preparation of the statement of requirements for the plant modifications & plant production improvement applying all high safety standards. Working on maximization of the production and minimizing of gas flaring. Initiating plant modification & design. Identifying and studying long term technical problems, and recommending feasible solutions and assist in implementation and commissioning.
- Interfacing with the company's business support in preparation of the company's five-year plan and providing direct technical support to the operation department during the train overhaul and as required achieving production targets.
- Assisting training and providing technical support to enhance the skills of process engineers.

Dates : From Apr. 2007 till Jan. 2009

Employer : ABU DHABI GAS LIQUEFACTION COMPANT Gas (ADGAS) - U.A.E.

Job title : Technical Projects Team Leader – Major Projects Department

Job Description :

- Technical Team Leader reporting to the OAG/IGD project manager, I was heavily involved in providing technical support to the integrated gas development project (IGD), and the flaring reduction project (FHER) based in Camberley, UK, at the FEED engineer FLUOR home office.
- The IGD project was to transfer 1Bscfd of high-pressure gas from Das Island to GASCO via offshore /onshore gas line. The Onshore Associated Gas project was to transfer 200 mmscfd of compressed low

pressure gases from Das Island to GASCO via offshore /onshore gas pipe line, both projects comprising of gas drying, sweetening and compression to 152 bars.

- The flaring Handling & Emission Reduction projects (FHER) , was three scheme projects was aimed to reduce ADGAS continuous flaring from 12mmscfd to 2 mmscfd, this was a major task to comply with ADNOC vision for zero based flaring initiatives.
- My main duties comprised of the following:
 - Contribution in the project Value Engineering for the project improvement by applying the company's guidelines.
 - Checking process definition variables including the process flow diagrams and instruments diagram, process heat and material balance.
 - Checking on the specification for the engineered equipment data sheets including process conditions for the control valves, pressure safety relief valves, with the optimization of the monitoring instruments / alarm management.
 - Resolving the FEED engineer technical queries (TQ'S) and the request for information (RFI's) by coordinating with the ADGAS departments.
 - Coordinate with ADGAS various relevant divisions and other OPCO's to ensure the project deliverable, reviews and input on timely basis.
 - Interfacing directly with the FEED project management to achieve project targets.
 - Played as a member of the team during the projects HAZOPs, CONSOP, SIL, and project alignment meetings.
 - Review project progress charts and attended weekly project progress meetings.
 - Contributed in reviewing Technical bids – Process related only.
 - Updated ADGAS managements on weekly basis on the project progress and achievements.

Dates : From Oct. 2005 till Mar. 2007
Employer : ABU DHABI GAS LIQUEFACTION COMPANT Gas (ADGAS) - U.A.E.
Job title : Technical Team Leader
Job Description :

- Joined the project department on the Onshore Associated Gas project (OAG) during the FEED completion, my task was to review the process design definition, evaluating technical bids- process related, checking, updating and closing final process documentations.
- Performed final checks on the Tie-ins list, including process conditions, and finalizing the project additional design requirements.
- Commenced working on the Pre-FEED of the IGD project at the FEED engineer consultant (FLUOR) home office in Aliso Viejo in the USA.

Dates : From Aug. 2003 till Sep. 2005
Employer : ABU DHABI GAS LIQUEFACTION COMPANT Gas (ADGAS) - U.A.E.
Job title : Senior Process Engineer – Operations

- Job Description** : Transferred to production department as a Senior Process Engineer, main duties were:
- Provide technical support to operations to achieve production targets.
 - Implement improvements to plant process parameters in order to increase production, quality, equipment efficiency with operating cost reduction, and eliminating waste without compromising in the plant safety & integrity.
 - Support process engineers technically in resolving plant problems.
 - Preparation & implementing of service level agreement for ADMA-OPCO.
 - Assisting the production controller for the preparation of production forecast.
 - Managing major plant overhaul activities, including plant equipment's internal inspection, and approving modifications implementation.
 - Engineered plant modifications in order to eliminate gas flaring during the liquid splitter Column replacement, Technical paper was prepared and presented in ADEPEC 2006.
- Dates** : From Nov. 1996 till Jul. 2003
- Employer** : ABU DHABI GAS LIQUEFACTION COMPANT Gas (ADGAS) - U.A.E.
- Job title** : Senior Process Engineer – Engineering Department
- Job Description** :
- Rejoined ADGAS as a senior process engineer in the engineering & technology department, supervising six process engineers to provide process engineering support & services to ensure safe & reliable operation of the LNG plant.
 - Initiated several plant modifications & design. Identified and studied long term technical problems, and recommended feasible solutions and assist in implementation.
 - I was responsible for plant day to day troubleshooting, and plant debottlenecking for all three LNG trains
 - My duties comprised of the following:
 - HP Gas Conditioning project technical proposal and a study was issued to resolve the continuous foaming problems of the Acid Gas Removal Unit (AGRU) mainly for train -3. The technical study concentrated on eliminating liquid hydrocarbon presence in the HP feed gas supply and the rectification of the undersized the inlet feed gas separator.
 - In the HP feed gas supply and the rectification of the undersized the inlet feed gas separator.
 - Provided technical support to the operations team to resolve plant equipment's / process problem root cause and recommending safe and reliable permanent solutions to prevent reoccurrence of the problem (s) in the Plant.
 - Plant modifications performed such as:
 - ❖ Boil off gas recovery.
 - ❖ Reduction of emission and zero-based flaring.
 - ❖ Cooling water hydraulic study.
 - ❖ Acid gas removal plant revamp & internal replacement.
 - ❖ HP gas conditioning project to resolve continuous foaming problem in the AGRU's in Train 3.
 - ❖ Gas dries molecular sieve life extension.

- ❖ Contributed to the Steam system management project (SSMP) dynamic simulation of ADGAS steam generation & load shedding at Honeywell home office in Canada.
- Ensure maximization of the production and utilization to minimize gas flaring. I identify and study long term technical problems, recommended feasible solutions and assist in implementation.
- Interfaced with marketing for the achievement of the desired LNG specification for spot cargoes.
- Involved in long- & short-term projects, such as LP gas capture, and fire water network on Das Island.
- Produced several training programs for the new UAE graduates and final year university students for solving day to day plant related problems, overhaul activities, and supporting them to produce their university project work.
- Interfacing with other suppliers for new products specifications for cost reduction, and plant overhaul frequency reduction .
- Heavily involved in plant overhaul inspection of major equipments and following up plant modifications.
- Preparation & optimizing the annual budget for the department.
- Conducting and chairing HAZOP & CONSOP meeting.
- I was also involved as a team member for ADGAS document management system (ADMS) which involved setting out procedures for all divisions secretaries for archiving and retrieving the entire documents electronically quickly & efficiently.

Dates : From Jun. 1996 till Oct. 1996
Employer : JOHN BROWN ENGINEERING & CONSTRUCTION LIMITED, PORTSMOUTH, U.K.
Project : B.P. Hull, U.K.
Job title : Senior Process Engineer
Job Description :

- Seconded to British Petroleum (B.P.) Hull, Salt End site working on the de-bottlenecking of the Acetyl Plant (A4), responsible for lines and control valves sizing for the acid transfer to the storage tanks.
- I was also involved in the methanol feed control to the existing reactor, producing the relevant specification datasheets for all major process equipments.

Dates : From Jun. 1994 till May 1996
Employer : JOHN BROWN ENGINEERING & CONSTRUCTION LIMITED, PORTSMOUTH, U.K.
Project : ICI Ltd, Middleborough, U.K.
Job title : Senior Process Engineer
Job Description :

- Seconded to ICI site to provide design support for the in-house project working as an area engineer on the Front End Engineering Package (FEEP) for the pure Terephthalic Acid (PTA) involved in the Oxidation, Slurry recovery and purification area. My duties were the preparation of the process flow diagram (PFD's) Utility Flow Diagrams (ULD's), Equipment & Instruments data specification sheets production, identifying relief cases for each section of the plant and sizing the relief

valves. Carried out line sizing calculations for the whole plant area and the responsibility of sizing of baffle trays & columns.

- I had two engineers working for me which I had to check and approve their work before presenting it to the client. On this project I was nominated as the project's ENGINES coordinator this involves in setting all the project datasheets for the process & instruments, designing and customizing the process templates, supervising process engineers data inputting and system management, creating and customizing reports with on-line data requisition from Oracle database using business object package. I also had the responsibility for bringing all the engineering line Diagrams (ELD's) up to date on Autoflow before loading them into the Oracle database.
- With all the simulation that I have conducted with my current & previous employers, John Brown has awarded me the "GURU" title for the process simulators on ASPEN + and Proll, this lead me to conduct several short training courses sessions to familiarize process engineers to use the packages.

Dates : From Apr. 1992 till May 1994
Employer : JOHN BROWN ENGINEERING & CONSTRUCTION LIMITED, PORTSMOUTH, U.K.
Project : Dow Corning – Barry, South Wales, U.K.
Job title : Senior Process Engineer
Job Description :

- Worked on a large scale silicon expansion project (Nemesis) on the fluid bed reactor plant, responsible for plant simulation of the distillation columns for the recovery of methyl chloride using Aspen + simulators, preparation of P&ID's, sizing of equipments and producing specification datasheets for the process equipments.
- Worked on the hydrolysis and splitter front end engineering package, modeled the whole plant on the process simulators to achieve actual plant operation, followed by improvement and enhancement to the current operation, producing heat & mass balance with the preparation of specification datasheets for the process.
- Modeled dispersion calculations using PHAST Professional package by Technica for the silicon plant, and the fluid Bed Reactor, Methyl chloride recovery and the distillation section.
- Database for the gas mixtures were generated for individual relief calculation.
- Finally worked on the utility section for the whole project producing Utility Line Diagrams, Mass balances, and produced equipment specification sheets.

Dates : From May 1991 till Mar. 1992
Employer : JOHN BROWN ENGINEERING & CONSTRUCTION LIMITED, PORTSMOUTH, U.K.
Project : BP Chemicals, Port Talbot, South Wales, U.K.
Job title : Senior Process Engineer

Job Description :

- Seconded to BP chemicals to provide design support for the in-house Vinyl Acetate Monomer Project (VAM) I was involved in preparation of the process design definition (PDD). The plant consisted of four different areas, Reaction, Distillation, Polymers, and acid removal. I have simulated the distillation Train Using ASPEN +.
- The simulation was to mimic the actual existing plant operation, this to ensure that all physical properties used were the appropriate ones following by modification to the existing plant resulting in optimizing and eliminating of some equipments, and improving the final products specifications.
- Mass & Heat balance and physical properties using PPDS2 were produced.
- This study was used for the preparation of the front-end engineering Package for a plant to be built in Taiwan. Later client asked for value analysis technique for examining the purpose and cost of each equipment for the new plant design, HAZOP meeting was attended, and actioned all process and instruments updates.

Dates : From Dec. 1990 till May 1991
Employer : JOHN BROWN ENGINEERING & CONSTRUCTION LIMITED, PORTSMOUTH, U.K. (John Brown – Home Office Portsmouth)
Job title : Process Engineer
Job Description : Worked on the polyethylene plant detail design engineering, checking on the engineering flow diagram (ELD'S), pumps, and checking line hydraulics, vessel and line insulation thickness, relief valves calculation, issuing minor mechanical and Instruments changes, Updating and closing out final process documentation.

Dates : From May 1990 till Nov. 1990
Employer : ABU DHABI LIQUEFACTION COMPANY
Job title : System Engineer
Job Description : A system engineer working on post-commissioning in system development, responsible for the configuration of the system, carried out software review and maintained a valid system database with up-to-date records. Implemented system modifications with control loops changes, designed and produced schematics on the Honeywell DCS TDC 3000 system.

Dates : From Dec. 1986 till May 1990
Employer : ABU DHABI LIQUEFACTION COMPANY
Job title : Process Engineer
Job Description :

- Process Engineer with the responsibility for short and long term studies related to process problems, debottlenecking of process units and aiming to enhance production of the plant utilizing new gas fields. Several plant process simulations were performed for the plant equipment optimization. I was also involved and assist in the Pentane chilling project by sizing control valves and performing hydraulics checks & pressure drop calculations.
- Equipment performance assessment was also part of my job for the booster compressor cooling water pumps.
- Troubleshooting of train 1 & 2 gas dries and calculation of the molecular

sieve drying performance, and checking it with the design values. Pentane colour specification problem was also tackled and proposed of activated carbon filters modifications.

- Process simulations were performed on Chemshare package for the improvement of the fractionation plant section and guidelines were provided for the operations department.
- Involved in trouble shooting of the acid gas removal plant using “Benfield Process” and DEA, and the LPG products mercaptans treatment units using molecular sieves.
- Undertook day-today plant performance monitoring and technical support to operations department was provided. Performance checks on the boiler steam generation, and the multi stage steam driven compressors, insuring maximum power and performance was achieved.

Dates : From Aug. 1985 till Dec. 1986

Job title : Process Engineer Under Development

Job Description :

- After the completion of the academic years, development program was set by the company (ADGAS) for all new graduates was consisted of Introduction to the company safety procedures and principles, practical application of the basic chemical engineering plant performances.
- Studies covering all plant areas, Gas process formalization, day-to-day operations, shutdown activities and planning, shift work, and general department administrations.

Field of experience :

- Awarded second level of TRIZ certification for innovation. Innovated new ideas to improved plant safety & production continuity.
- Good knowledge with process simulation software. Conducted several processes engineering related training courses.