

Chemist – Commissioning & Operation Senior Engineer

Holds a B. Sc. in Chemistry and has over 20 years of progressive employment in fields related to industrial projects. Is experienced in HSE and quality systems audits, inspections, risk assessments, fire safety planning and execution. Managed safety permits like confined space, hot work permits, etc. and LOTO control in operation and under construction power plants. Developed and conducted training courses for O&M staff in HSE activities.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 01/06/1967
Gender : Male
Marital Status : Married
Residence : Alexandria

EDUCATION

: B. Sc. in Chemistry, Ain Shams University, 1988

LANGUAGES

Arabic : Native Language
English : Good

COMPUTER SKILLS

: Windows, MS Office, Internet

TRAINING COURSES AND CERTIFICATIONS

- : Boiler initial acid cleaning and start-up training courses by Babcock and Wilcox.
- : Reverse Osmosis training by AQUATECH International in Sidi Krir Power Plant.
- : Boiler water chemistry and monitoring protocols training by NALCO, Egypt.
- : Reverse Osmosis O&M and efficiency control training by NALCO GULF, DUBAI.
- : Application of chlorine dioxide disinfectant for cooling systems by Caffaro, Italy.
- : Audit training for Environmental ISO standard ISO14001:2004.
- : Audit training for Safety standard OHSAS 18001:1998.
- : Audit training for QMS according to the Quality standard ISO 9001:2000.
- : Computer software like, JDE & PI systems.
- : Safety awareness and first aid training at QASCO & QGPC, QATAR.

- : Water treatment analysis and measurements training by ISCOA, QATAR.
- : Corrosion and Corrosion Control training courses in Qatar steel co. Ltd by IMCD.
- : Boiler water chemistry and monitoring protocols training by NALCO.
- : Computer skills capabilities.
- : Bechtel basic and site specific training courses, constituting a program of concentrated study of power plant equipment theory and applications in Shoubra 4x315MW PP.

CHRONOLOGICAL EXPERIENCE RECORD

Dates : From May 2009 till now
Employer : [EGYPTROL](#), Seconded to TOSHIBA Plant Systems & Services Corporation
Project : Sidi Krir Combined Cycle Power Station 750MW (2x2x1)
Job title : Shift Charge Operation Engineer
Job Description : Operation of the Mechanical Works Contractor CP-118 for the Simple Cycle, Toshiba Plant Systems & Services TTPS, Toyota Tsusho Co.

Dates : From Jul. 2008 till Mar. 2009
Employer : Consortium of IBERINCO (IBERDROLA Ingenieriy Construction)
Project : FUJAIRAH Extension Power Project (UAE):
 The Fujairah power project extension has one Gas Turbine (GE 9001 FA) 225MW, including HRSG and ancillary facilities.
Job title : Commissioning Chemical Engineer
Job Description : Assigned to perform the following:

- Review and supervise the chemical cleaning of HRSG, safety procedure and MSDS of the required chemicals as well as monitoring the waste water quality to be with in the legal environmental limits before disposal.
- Supervise and apply the HRSG boiler treatment & closed cooling water chemical program and selection of the proper chemicals and suppliers.
- Commissioning and start-up of the chemical dosing system for both closed cooling system and HRSG boiler drum.
- Commissioning and start-up of the sampling system with its required calibrations and reagent preparation for the online analyzers.
- Commissioning and start-up of the CEMS unit.
- Maintain the boiler water/steam quality within the recommended limits during the performance and reliability tests and normal operation.
- Order all the required chemicals, tools and maintain the chemical inventory.
- Developed and implemented HSE plan for the chemicals activities in the site.
- Effectively scheduled and performed Site walk downs, inspections, evaluations and risk assessment on environmental and safety hazards of construction development and operational activities.

Dates : From Jan. 2001 till Jun. 2008

Project : Sidi Krir Power Plant 3 & 4
The first BOOT project in Egypt, started the commercial operation in 2001. The company was owned by the following international companies: Interger / Edison and Globeleq, at present it is owned by Tanjong Power Co.

Job title : Plant Chemist & Safety Coordinator

Job Description : Responsible for the safe and efficient operations of the following facilities:

- Reverse Osmosis two stages desalination unit 40m/hr.
- Chemical injection systems and required chemical analysis.
- Chlorine gas/chlorine dioxide injection systems.
- Waste water treatment facilities, Oil/Water separation unit and maintain the wastewater discharge quality stay in compliance with all HSE policies.
- Preparation of Safety and Operation training program, testing procedures and lab safety standard for water treatment concerned employees and subcontractors.
- Provided and implemented the Safety and Environment procedures as well as the chemical handling and chemical storage procedures.
- Provided the MSDS required for all chemicals in the site.
- Management of all chemistry required to maintain water, steam systems, boilers and waste water at the plant within regulations and maintain thermodynamic efficiency, system and equipment reliability and generating capacity.
- Implement chemistry programs to prevent/reduce cycle component corrosion and the resulting forced outages and maintenance costs.
- Maintain and develop all procedures and policies of the Management System within areas of responsibility.
- Provide annual budget model requirements for assigned projects, chemistry operations and regulatory compliance.
- Maintain water and waste water quality stay in compliance with all HS&E allowed limits and the environmental legislations of both Egyptian & World Bank Standards.
- Natural Gas and Fuel Oil quality monitoring and analysis tracking.

Dates : From Dec. 1994 till Dec. 2000

Employer : Qatar Steel Company Ltd.
(Energy Dept. - Water and Gas utilities section)

Job title : Shift Charge Operator

Job Description : Assigned to maintain the operation and preventive maintenance schedules of the following systems and equipment:

- DRGP - 3900 Cryogenic Air Separation Plant built by SIAD Co. (Pergamo, Italy):
 - The plant capacity is 3700 Nm³/hr of gaseous Oxygen, 200 m³/hr of liquid Oxygen and 11,000 Nm³/hr of gaseous Nitrogen. The plant is totally fully automatic DCS operated.
 - Participated in the plant construction & pre-commissioning phases, of purifiers' media filling, cold box insulation media filling and cooling water system preparation.

- Atlas Copco air compressors 3x20,000 Nm³/hr, Chiller units by York , air purifiers, Cold Box, 2nos. process Turbine 14,000 rpm, Primary & Secondary Heat exchangers by Siad, liquid Oxygen and gaseous Nitrogen storage facilities, O₂ and N₂ supply compressors.
- TCON – 120 Cryogenic Air Separation Unit:
 - Producing 120 Nm³/Hr of gaseous Oxygen and 60 Nm³/r of gaseous Nitrogen with respective compression and bottling facilities of up to 150 bar, with it's all accessories such as Raw air compressor, Refrigerating unit, Molecular sieves desiccating unit, O₂ & N₂ gases supply compressors and cooling water system.
- 2600-m³/hr Circulating Water-Cooling System:
 - For the direct reduction plant (midrex process) with 5000m³ clarifier capacity, heat exchangers, filtration system, softeners, chemical dosing facilities etc.
- 40,000 Nm³/Hr Natural Gas pressure reducing station and Handling facilities.
- 10,000 Nm³/Hr Compressed Air Supply System:
 - For service and instrumentation uses, compressing of screw type ATLAS COPCO air compressors 4x2000 Nm³/hr ZR group and Man-GHH 2800-315 type.
- Commissioning and start-up in charge of demineralizer plant, 30 m³/Hr capacity built by CULLIGAN.

Dates : From Jan. 1992 till Dec. 1994
Project : Abu Qir Power Plant 900MW
Job title : Shift Chemist
Job Description : Responsible for operating the following systems:

- Raw water pretreatment plant (chlorination, clarification and filtration).
- Counter-current three trains demineralizer plant 180-m³/hr capacities.
- Two condensate polisher systems with resin regeneration facilities.
- Water and steam quality adjustment through chemicals feed system.
- Performing all the required water analysis during the shift.

Dates : From Nov. 1990 till Dec. 1992
Employer : Cairo Electricity Production Company
Project : Shoubra El-Kheima Power Plant 1400MW
Job title : Shift Chemist
Job Description : Responsible for operating the following systems:

- Raw water pretreatment system (1100 gpm).
- Three train demineralizer units (3x300 gpm).
- Four condensate polisher units with resin regeneration facilities (4000 gpm each).
- Waste water, Oil removal systems using the dissolved air floatation system.
- Sewage treatment unit.
- Hydropneumatic / potable water system.
- Performing all the required water analysis during the duty time.