

Holds a B. Sc. in Chemistry & Microbiology and has about 19 years' experience in Water treatment, Oil & Gas Power Plants for commissioning, start-up, normal operation, maintenance and preservation. Specializing in water management, with extensive experience in sewage water treatment, raw water processing, cooling water systems, boiler feed water, HRSG sampling systems, oil-water separation and wastewater treatment. Strong background in process troubleshooting, chemical analysis, laboratory management, and performance monitoring. Adept at conducting HAZOP, RCA, and MOC assessments to enhance operational efficiency and ensure compliance with safety and environmental standards.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 01/10/1983
Gender : Male
Marital Status : Married
Residence : Currently Iraq

EDUCATION

: B. Sc. in Chemistry & Microbiology, Alexandria University, 2004

LANGUAGES

Arabic : Native Language
English : Good

COMPUTER SKILLS

: Windows, MS Office (Word, Excel, Power Point), Internet
: Adobe Illustrator 2020

TRAINING COURSES AND CERTIFICATIONS

- : Completed the STF onshore operation training course for a 750MW Nubaria project 3 (Contract -10049-CP-105).
- : Training course in chemical cleaning, Vecom Knowledge Academy.
- : Training courses in Chemical Cleaning GCS (GLOBCHEM GLOBAL CHEMICAL SERVICE).
- : Several training courses at central chemical laboratories in Egyptian Electricity Holding Company.
- : Environmental studies at Institute of Research and Graduate Studies in Alexandria.
- : Firefighting systems (hydrants / detectors / pumps / panels) (1 week).

CHRONOLOGICAL EXPERIENCE RECORD

Dates : From May 2024 till now
Employer : Bonatti S.p.A. IRAQ Branch Company
Job title : Process & Utility Supervisor / Production Chemist
Job Description :

- Maintain process optimization and chemical as last resort.
- Troubleshoot issues at water treatment plants, degassing stations, produced water reinjection facilities, and cluster pumping stations.
- Water Treatment Plant and Utilities including (MMF, UF unit, SWRO / BWRO units, Mixed bed units) for Demi water production.
- Utility Air Compressors.
- Firefighting Pumps, water Deluge and Water Foam Deluge Skids in accordance with the requirements of NFPA 25.
- Main Fuel Gas Area (Gas Trap Area / Slug Catcher / Scrubbers / Dew point heater / Hot water Boiler / Condensate / Flare and Burn Pit Area).
- Fuel Oil Storage tanks and Fuel unloading / Forward Pumps Area.
- Review and support laboratory analysis across various water testing locations, leveraging strong expertise in water chemistry.
- Oversee source water treatment and oil-water separation, as well as corrosion mitigation, scale management, and biological controls, along with monitoring produced water treatment and related laboratory analyses.
- Daily and weekly reporting by the Production Chemistry team to the Production Chemist Team Lead.
- Waste water disposal units.

Dates : From Dec. 2021 till Apr. 2024
Employer : SPM Oil and Gas Caterpillar Company
Job title : Process & Utility Supervisor / Production Chemist
Job Description :

- Conduct quality control inspections: Perform thorough inspections of chemicals supplied by vendors to ensure compliance with safety and quality standards.
- Main Fuel Gas Area (Gas Trap Area / Slug Catcher / Scrubbers / Condensate / Flare and Burn Pit Area (oil production system, oil-gas water treatment and water injection systems).
- Oil Fuel Storage tanks and Fuel unloading / Forward Pumps Area.
- Firefighting Pumps, water Deluge and Water Foam Deluge Skids in accordance with the requirements of NFPA 25.
- Water Treatment Plant and Utilities including (MMF, UF unit, SWRO / BWRO units, Mixed bed units for Demi water production.
- Hot Water Boiler System & Dew Point Heaters and Reduction System for Gas Pressure.
- Waste Water Treatment and Sanitary Treatment Plant.
- CEMS Monitoring for Flue Gases of Gas Turbines.
- Responsible for fluid treatment, scale management, emulsion treatment, corrosion managements and fresh produced water treatment.
- Execute and optimize laboratory tests: Carry out, monitor, and enhance laboratory tests and field trials for improved outcomes.
- Review laboratory analyses: Provide support and oversight for laboratory analyses across diverse water testing locations, utilizing strong expertise

in water chemistry.

- Responsible for production quality and production chemistry HSSE responsible for assigned budget.

Dates : From Jun. 2020 till Nov. 2021
Employer : [EGYPTROL](#), AC Boilers Subcontractor
Project : SUPERCRITICAL POWER PLANT (1x660MW) IN ASSIUT NEW PROJECT
Job title : Commissioning & Start-up Chemist
Job Description :

- Chemical cleaning, Boiler clean up, Refractories dry out, Steam blowing, Bypass & Normal operation.
- Boiler preservation (Wet & Dry preservation).
- SWAS & CEMS Systems & sampling analysis.
- Start-up of the Sampling System with its Requirements from Calibration and Reagent Preparation for the Online Analyzers.
- Boiler Performance Test (Natural Gas & Mazout).
- Good experience in Working, Maintenance and Calibration of SWAN, HACK, 3S Colorimeter and EMERSON Analyzers.
- Condensate Polisher Operation and Regeneration.
- Condensate Polisher System Commissioning and Start-up.
- Preparing Reports and Documentations.
- Order all the Required Chemicals, Tools and Maintain in the Chemical Inventory.
- Developed and Implemented HSE Plan for the Chemical Activities in the Site.
- Evaluations and Risk Assessment on Environmental and Safety Hazards of Construction and Operation Activities.
- Water Treatment System / RO unit / EDI unit / Demineralization System / Electro Chlorination Plant.

Dates : From 2018 till May 2020
Employer : [EGYPTROL](#), AC Boilers Subcontractor
Project : SOUTH HELWAN SUPERCRITICAL 3x650MW PP
Job title : Commissioning & Start-up Chemist
Job Description :

- Chemical cleaning, Boiler clean up, Refractories dry out, Steam blowing, Bypass & Normal operation.
- Boiler preservation (Wet & Dry preservation).
- SWAS & CEMS Systems & sampling analysis.
- Start-up of the Sampling System with its Requirements from Calibration and Reagent Preparation for the Online Analyzers.
- Boiler Performance Test (Natural Gas & Mazout).
- Good experience in Working, Maintenance and Calibration of SWAN, HACK, 3S Colorimeter and EMERSON Analyzers.
- Condensate Polisher Operation and Regeneration.
- Condensate Polisher System Commissioning and Start-up.
- Preparing Reports and Documentations.
- Order all the Required Chemicals, Tools and Maintain in the Chemical Inventory.
- Developed and Implemented HSE Plan for the Chemical Activities in the Site.

- Evaluations and Risk Assessment on Environmental and Safety Hazards of Construction and Operation Activities.
- Water Treatment System / RO unit / EDI unit / Demineralization System / Electro Chlorination Plant.

Dates : For 4 months

Job Description : Trainer at:

- South Helwan Supercritical Power Plant 3x650MW Gas / Oil Fired Units.
- West Damietta Power Station Phase II Converting Existing Simple Cycle to Combined Cycle Project.
- Assiut Supercritical Power Plant 1x650MW Steam Power Station.

Dates : From 2007 till 2018

Employer : Middle Delta Electricity Production Company

Project : Nubaria Power Station Combined Cycle (2250MW) (3x750MW) Siemens gas turbine, GE gas turbine, Mitsubishi steam turbine

Job titles :

- 4 years as CCR Chemist Operator
- 2 years as Chemist Laboratory
- 4 years as CCR Chemist Supervisor

Job Description :

- Review the Chemical Cleaning of HRSG & Safety.
- The Waste Water Quality to be within the Legal Environmental Limits before Disposal.
- Apply the HRSG Boiler Treatment, Closed Cooling Water and Start-up of the Chemical Dosing.
- Make Analysis for all Samples in (Boiler Drum, Drinkable Water in Station, Waste, Sewage and Oil Treatment).
- Maintain the Boiler Water/Steam Quality within the Recommended Limits.
- Good experience in Treatment of Water by Reverse Osmosis System.
- Good Operating for Ion Exchange System.
- CEMS (Continuous Emission Monitoring System).
- Order all the Required Chemicals, Tools and Maintain in the Chemical Inventory.

Field of experience :

- Aware to using P&ID, Outline Equipment Drawing, Electrical Wiring Diagram and devices manuals as much as helps me in the work responsible for it.
- Have good working skills to read MSDS, MR for chemical purchase and good skills to perform the chemical calculations necessary for different injection systems in the field of water treatment plants.
- Have an acceptable background on the methods of designing water treatment plants from beginning until start-up operation and performance tests.
- Good skills in making work reports, diagnosing faults, developing alternative plans for work.