**102786-MEC-18COS-E-2007**
Operation Engineer

Holds a B. Sc. in Mechanical Engineering (Naval Architecture & Marine Department) and has over 10 years hands-on experience working in operation, commissioning and start-up at Power Plants.

## PERSONAL DATA

| | | |
|---|---|---|
| Nationality | : | Egyptian |
| Birth Date | : | 30/09/1985 |
| Gender | : | Male |
| Marital Status | : | Married |
| Residence | : | Alexandria |

## EDUCATION

: B. Sc. in Mechanical Engineering (Naval Architecture & Marine Department), Alexandria University, 2007

## LANGUAGES

| | | |
|---|---|---|
| Arabic | : | Native Language |
| English | : | Excellent |
| Dutch | : | Basics |

## COMPUTER SKILLS

: Windows, MS Office, Internet
: AutoCAD (2D & 3D)
: MS Project

## TRAINING COURSES AND CERTIFICATIONS

: Trainings at:
- Petrojet Company (Aug. 2006).
- Alexandria Portland Cement Company - Lafarge Titan Egypt (Jul. 2005 & Aug. 2007).

## CHRONOLOGICAL EXPERIENCE RECORD

| | | |
|---|---|---|
| **Dates** | : | From 2016 till 2018 |
| **Employer** | : | Dhofar Generation Co. |
| **Project** | : | Salalah Power Plant (2x150MW), OMAN |
| **Job title** | : | Power Station Operation Engineer |

**Dates** : From Dec. 2008 till 2016
**Project** : SIDI KRIR Power Plant (2x320MW)
**Job title** : Operation & Commissioning Engineer

**Further experience:**
I have worked for MICON Construction Company as a Mechanical Site Engineer for 8 months, we built a CO2 liquefying factory for AIR LIQUIDE Company behind Abu Qir Fertilizers Company, and also I have drawn the as built drawings for this factory.

**Field of experience** :

- Field Process Engineer:
  - Inspect the unit's and its auxiliaries, electrical, mechanical, control and instrumentation equipment condition prior to start-up, during operations and after shutdown.
  - Record all plant/auxiliaries operating data, including all alarms and protective devices being actuated and reports any deviation to the Shift Charge Engineer necessary action.
  - Monitor operation of auxiliaries such as the plant switchgear and performs corresponding switching schedule as directed by the Shift Charge Engineer.
  - Able to operate plant common auxiliaries such as auxiliary boiler, emergency gas turbine, emergency diesel, dematerialized water plant, desalinated water plant. And chlorination plant.
  - Responsible for raising fault notification on equipments vital to the continuous operation of the plant.
  - Perform other related duties as may be assigned by immediate superior from time to time.
  - Member of emergency response team.
  - Attend required and non-required training for regulatory compliance as well as personal development.
  - Able to perform equipments testing with maintenance crew after defects rectification.
  - Have to manage and coordinate the fuel unloading process with logistic workers and security team.
- Control Room (DCS) Process Engineer:
  - Start-up, shut-down & safe operation for main boiler (BABCOCK & WILCOX) and its auxiliaries including: natural gas firing, mazout firing, start-up of aux, boiler, preparation of re-boiler system, soot blowing system & chemical cleaning.
  - Start-up, shut-down & safe operation for main turbine (SIEMENS) and its auxiliaries including: lube & control oil system, seal oil &seal steam systems, condenser vacuum & evacuation systems generator cooling & filling systems, turbine extraction & drains.
  - Start-up, shut-down & safe operation for the auxiliaries systems including: feed water system using variable speed turbine driven feed water pumps, condensate water system, closed cooling system, service water system, circulating water system, compressed air system, Hydrogen plant.
  - Monitor the operating conditions of the power plant systems, record findings and readings.
  - Direct Field Operator to assist the Shift Supervisor in the safe operation of the facility.

- Perform inspections of plant equipment, systems and facilities.
- Responsible for operating plant controls to minimize or eliminate forced outages, curtailments and de-rates.
- Support and preserve the best thermal performance of the unit.
- Maintain the unit in compliance with all emissions limitations in accordance with the environmental permits and informs the Shift Supervisor if a limit is exceeded.
- Operate the unit in an efficient manner that will help with maintaining the heat rate and availability.
- Understand, adhere and comply with the site's Environmental Health & Safety Program.
- Attend required and non-required training for regulatory compliance as well as personal development.

- SIEMENS 2014 Major Overhaul Outage:
  - I was one of the operation team that responsible for supervising the maintenance 320MW steam turbines.
  - Assembly and Disassembly for IP & LP turbines and its Casings.
  - Sand blasting for those turbines and Casings.
  - Inspecting for Turbines' valves, Bearings and Blades.
  - Welding Tests for Blades, Valves and Bearings.
  - The First Commissioning for this Unit after this Outage for Turbine Systems Lube Oil, Seal Oil, Control Oil and Generator Hydrogen Purge and Charge.
- Desalination Plant:
  - Operate Multi Stage Flash Chambers (MSF) (2 x 5000 ton/day).
  - Start-up, shut-down & safe operation for desalination plant (HITASHI MULTI STAGE CHAMBER 2 x 5000 TON/DAY) including: steam brine heater system, condensate return system, brine recirculation system, blow down system, distillate intake system, ejectors evacuation system & acid cleaning system.