

# 106952-MEC-1DGMOSn-E-1981

## Mechanical Lead Engineer

Holds a B. Sc. in Mechanical Power Engineering and has over 36 years hands-on experience working in maintenance, operation and commissioning.

### PERSONAL DATA

Nationality : Egyptian  
Gender : Male  
Marital Status : Married

### EDUCATION

: B. Sc. in Mechanical Power Engineering, Alexandria University, 1981

### LANGUAGES

Arabic : Native Language  
English : Fluent

### COMPUTER SKILLS

: Windows, MS Office, Internet

### TRAINING COURSES AND CERTIFICATIONS

- : Seminar by SKF for Bearing Technology.
- : Attending training for Engineering Diagnosis and Conditional Maintenance by COMIBASSAL International Organization.
- : One-month training in Preventive maintenance.
- : Two weeks training for heat rate awareness with General Physics Strategy.
- : Attending so many Presentations and Seminars every year presented by Power Stations Equipment's Manufacturers and OEMs such as MHI, GE, ABB, ALSTOM, ANSALDO, etc. - demonstrating the state of arts for the Power Generation Technology.
- : Attending many workshops related to my field activities.
- : Speaker in some International Power Generation Conferences such as the 16<sup>th</sup> Annual Power & Electricity World Asia (Apr. 2013).

### CHRONOLOGICAL EXPERIENCE RECORD

Dates : From Jan. 2018 till Jan. 2019  
Job title : Independent Consultant at Power Generation

- Dates** : From Dec. 1991 till Dec. 2017
- Employer** : Saudi Electricity Company (SEC-WOA)
- Job Description** :
- Preparing technical specifications and the contract scope of work for conventional units / combined cycle for the following stages in SEC-WOA for the following projects:
    - Rabigh Power Plant stage II (2x340MW) - ABB - Combined Cycle Units.
    - Rabigh Power Plant stage III (2x268MW) - MHI - Conventional Steam Power Plant.
    - Rabigh Power Plant stage IV (1x350MW) - GE - Combined Cycle Units.
    - Rabigh Power Plant stage VI (4x600MW) - Dossan - Conventional Steam Power Plant.
    - Shoaiba Power Plant stage I (5x393MW) - APC - Conventional Steam Power Plant.
    - Shoaiba Power Plant stage II (6x393MW) - APC - Conventional Steam Power Plant.
    - Jeddah South Power Plant (4x660MW) - Supercritical pressure.
  - Evaluating the Technical proposals from OEM for Conventional Steam Power Plants and Combined Cycle Plants.
  - Mechanical Lead Engineer in Design review meetings, Technical coordination meetings and periodic site meetings to follow up the project activities vide operations staff.
  - Representing SEC-WOA during the Factory inspection tests and commissioning activities of major equipment's of the some of the above projects.
  - Evaluating the procedures of Plant performance tests.
  - Proposing the Non-conformance reports of malfunctioned equipment's' and verifying/approving the field design change to rectify the malfunction operation and defects.
  - Representing SEC-WOA as a Mechanical Lead Engineer in guarantee inspection of major equipment's in presence of OEM before signing FAC certificate.
  - Analyzing the plants incidents and proposing the procedures and technical scope to rectify the incidents. Leading RCA groups for identifying the causes and countermeasures.
  - Proposing the upgrading of different equipment in order to suite the plants operational requirements and inherited design defects / equipment's' degradations.
  - Preparing the Departments technical reports to superior Managements and exchanging technical correspondences with OEM regarding equipment malfunction operational, Modifications and future countermeasures of any inherit design defects.
  - Proposing the scope of Life Assessments of power plants.
  - Technically supporting the maintenance Department during steam turbines overhauls & inspections for Rabigh, Shoaiba & Jeddah South Power Plants.
  - Mechanical Lead Engineer in Design review stage in Jeddah South Power Plant 4x700MW Supercritical Fossil Power Plant.
  - Western Sector Leader for performance and efficiency initiation for Accelerated Strategic Transformation Plan ASTP.

**Dates** : From Sep. 1988 till Nov. 1991  
**Employer** : Alexandria National Steel & Iron Co.  
**Job title** : Mechanical Maintenance Engineer  
**Job Description** :

- Supervising the Maintenance activities of the Bar and Rolling Mill plants such as:
  - Walking Beam Reheating Furnaces.
  - Milling Plants.
  - Overhead cranes, pumps, air compressors.
  - Finishing facilities including all the associated hydraulic circuits and equipment.
- Proposing and executing many modifications to the above equipment to overcome the inherited design defects and malfunction operation.
- Re-engineering and preparing the machine drawings for manufacturing many spare parts by reverse engineering to overcome the long-time delay of spare parts delivery and lack of spares.
- Proposing upgrading some of the above mechanisms and equipment such as: drives of overhead cranes, Hydraulic circuits and finishing facilities M/Cs.

**Dates** : From Feb. 1984 till Sep. 1988  
**Job titles** : Shift Charge Engineer / Steam Power Plant Turbine Maintenance Engineer  
**Job Description** :

- Shift Charge Engineer, responsible for supervising the Conventional Thermal Steam Power Plant operation of Industrial Zone in Ameria Company. The plant is mainly designed to supply the industrial factories by approximately 300 t/h of extracted steam, pressure of 10 & 5 Bars which are extracted from lower stages of two Siemens steam turbines of 25MW.
- Attending the Equipment's' function tests and plants commissioning with OEM.
- Turbine Maintenance Engineer supervising the maintenance activities and attending the Guarantee inspections with OEM.

**Dates** : From Jan. 1983 till Feb. 1984  
**Employer** : Gulf of Suez Petroleum Company (GUPCO)  
**Project** : Ras Shukheir  
**Job title** : Mech. Maintenance Engineer  
**Job Description** : Supervising Maintenance and overhauls activities in Off Shore oil Platforms for Reciprocating Machines, Natural Gas engines and Compressors, Air Compressors and Diesel engines.

**Field of experience** :

- Intensive technical skills in Conventional Steam Power Plant Generation / Combined Cycle process & capability of improvements the associated process and thermal cycle for achieving plants safe operational, systems availability and reliability.
- Preparing Tenders specifications and evaluating the Technical proposals of many projects of Conventional and Combined cycle units (since Dec. 1991 till now).
- Representing Saudi Electricity Company in western region (SEC-WOA) during constructions of new power generation projects as a Mechanical

Lead Engineer during negotiation with contractors in pre-bids, projects evaluation and post bids stages.

- Mechanical Lead Engineer in design review meetings, projects execution, Commissioning, Performance tests till end of Final Acceptance certificate FAC.
- Leading SEC-WOA Root Cause Analysis team of engineers to resolve the plants incidents. Proposing the required work scope and specifications for units' rehabilitations, upgrading & long-term contracts for major equipment's maintenance.