**101764-MEC-148OSY-E-1999**
Boiler Commissioning, Start-up & Operation Engineer

Holds a B. Sc. in Mechanical Engineering and has over 23 years hands-on experience working in operation, commissioning and start-up.

## PERSONAL DATA

| | | |
|---|---|---|
| Nationality | : | Egyptian |
| Birth Date | : | 05/12/1975 |
| Gender | : | Male |
| Marital Status | : | Married |

## EDUCATION

: B. Sc. in Mechanical Engineering, Alexandria University, 1999

## LANGUAGES

| | | |
|---|---|---|
| Arabic | : | Native Language |
| English | : | Fluent |

## COMPUTER SKILLS

: Windows, MS Office, Internet
: AutoCAD

## TRAINING COURSES AND CERTIFICATIONS

: Boiler (1100t/hr, 174bar, 540$^0$C) by FOSTER WHEELER Co.
: Steam turbine (HIP & LP) by TOSHIBA Co.
: Auxiliary Boiler (50t/hr, 16 bar, 350$^0$c) by BABCOCK Co.
: Gas Turbine unit as black start unit (15MW) by TUMA TURBO MACH Co.
: Desalination plants (2 units multi effect type evaporator with 60t/hr capacity) by ENTROPY Co.
: Mixed bed units (2 units with 50t/hr capacity) by METITO Co.
: Condenser, L.P. & H.P. Heaters, priming and vacuum pumps by ALSTOM Co.
: Process and Operation job by E.D.F. Co.
: High and low voltage switchgear (220KV/0.4KV) by ALSTOM Co.
: Medium voltage switchgear (6.6KV) by SCHNEIDER Co.
: Operation of gas reduction station by GAS DE FRANCE Co.
: Simulator Training by E.D.F. Co.
: Fire Prevention and Fire Fighting by ARAB ACADEMY and by E.D.F. Co.

: Personal techniques and search and rescue by ARAB ACADEMY.
: Medical First Aid by ARAB ACADEMY and by E.D.F. Co.

## CHRONOLOGICAL EXPERIENCE RECORD

**Dates** : From Feb. 2022 till now
**Employer** : AVAX J&P
**Project** : BESMAYA Combined Cycle Power Plant 3 phases (GE gas turbine 9 FA, GE Steam turbine & CMI HRSG, ENEXIO ACC system) (6x750MW)

**Dates** : From Apr. 2021 till Jan. 2022
**Employer** : PGESCO
**Project** : ASSIUT Power Plant 1x650MW Ansaldo Supercritical Boiler & Doosan Steam turbine

**Dates** : From Dec. 2019 till Apr. 2021
**Employer** : PGESCO
**Project** : Cairo West Power Plant 1x650MW Ansaldo Supercritical Boiler & Doosan Steam turbine

**Dates** : From Jun. 2018 till Dec. 2019
**Employer** : PGESCO
**Project** : South Helwan Power Plant 3x670MW Ansaldo Supercritical Boiler & Mitsubishi steam turbine

**Dates** : From Jun. 2017 till Jun. 2018
**Employer** : AC Boilers
**Project** : Al-Shabab Combined Cycle Power Plant (GE gas turbine 9E, Ansaldo Energia Steam turbine & Ansaldo HRSG) (2x765MW)

**Dates** : From Nov. 2015 till Jun. 2017
**Employer** : EGYPTROL with Ansaldo Caldaie
**Project** : Suez Thermal Power Plant (Ansaldo boiler, Alstom Steam turbine) (1x650MW)
**Job title** : Boiler Commissioning, Start-up & Operation Engineer

**Dates** : From Nov. 2013 till Nov. 2015
**Employer** : RAWEC (Rabigh Arabian Water & Elect. Co.)
**Project** : IWSPP (9 Boilers x 470 t/h & 5 Steam Turbines x 120MW) to supply Electricity, Water and Steam to Petro Rabigh Complex

**Dates** : From May 2013 till Nov. 2013
**Employer** : PGESCO
**Project** : Ain Sokhna Power Plant 2x650MW supercritical boilers
**Job title** : Shift Charge Engineer

**Dates** : From Jun. 2008 till May 2013
**Employer** : ALSTOM & SEC-WR (Saudi Electricity Company Western Region)
**Project** : SHOAIBA Power Plant (3 stages), 14x400MW

**Dates** : From Jan. 2002 till Jun. 2008
**Employer** : E.D.F (Electricitē De France)
**Project** : Suez Gulf Power Plant (2x364MW)

**Dates** : From Mar. 2001 till Jan. 2002
**Employer** : MICON Co.
**Projects** :
- SIDPEC Site
- RASHPETCO Site

**Dates** : From Jul. 1999 till Jan. 2000
**Employer** : DAELIM Co.
**Project** : MIDOR (MIDDLE EAST OIL REFINARY) Site

**Field of experience** :
- BOILER & HRSG & TURBINE & BOP COMMISSIONING, START-UP & OPERATION SITE CONSULTANT:
  - Co-ordination between contractors to facilitate Boiler & HRSG & Turbine & BOP commissioning as per planned schedule.
  - Plan, organize and control an adequate Boiler & HRSG & Turbine & BOP system commissioning with my subordinates, applying knowledge, policies and procedures that ensures the safe and ease Boiler & HRSG & Turbine & BOP commissioning/operation.
  - Follow up and modify if needed all Boiler & HRSG & Turbine & BOP Procedures as (Air blowing – Water flushing - Oil flushing - Chemical cleaning - Steam blowing - etc...) for all Boiler & HRSG & Turbine & BOP systems.
  - Responsible for systems turnover and handover preparation.
  - Perform technical analysis and reports for any defects before /during Boiler & HRSG & Turbine & BOP commissioning or normal operation.
- BOILER, HRSG & BOP MECHANICAL COMMISSIONING ENGINEER:
  - Responsible for Boiler, HRSG & BOP Mechanical Pre-commissioning, Commissioning, Start-up, Operation as per manufacture's specification/requirements.
  - Responsible for providing Boiler, HRSG & BOP pre-commissioning activities Procedures as (Air/Steam blowing – Water flushing - Oil flushing - Chemical cleaning - etc...) for all Boiler & HRSG & BOP systems.
  - Preparing of startup and normal operation procedures according to equipment's O&M manuals.
  - Perform technical analysis for any defects before /during Boiler & HRSG & BOP commissioning or normal operation.
- PLANT SUPERINTENDNT (DEPUTY OPERATION MANAGER):
  - Responsible for plant operation as per manufacture specification/requirements.

- Responsible for the operation of the facility and its interface with other parties and ensure safe operation, high availability and reliability at minimum cost.
- Plan, organize and control an adequate monitoring and operation of Power Plant systems with my subordinates, applying knowledge, policies and procedures that ensures the capacity and availability of the plant to the client's requirements (as per RAWEC-Petro Rabigh Agreement).
- Manage and coordinate operations during normal and any abnormal operational situation assessing information and providing command to personnel to ensure safety and minimum impact on plant's deliveries.
- Responsible for the communication with all parties involved with the export of water, steam and power to the off-taker and act as main contact person during the shift.
- Share and implement furthermore RAWEC's vision of O&M service and company policies and procedures through all its workgroup.

- SHIFT CHARGE ENGINEER:
  - Responsible for Power Plant to be in normal operation and optimal efficiency.
  - Manage the operation staff.
  - Preparing operating procedures according to equipment's O&M manuals.
  - Responsible for all electrical (HV, MV, LV) activities change over, isolation, earthling, etc...
  - Responsible for safety and performance of the plant.
  - Responsible for control room activities (start up, initial operation, shut down, and systems preservation).
  - Participate in daily meetings with Managers (Planning, Technical services, Material, safety and Maintenance) to discuss maintenance activities, status of plant & action plan.
  - Preparing the comments on any future systems expansion or modifications and associated facilities related to the efficient operation of the plant equipment.
- LOTO ENGINEER:
  - Prepare Units Shutdown schedule, procedures and isolation steps with planning.
  - Locking Manager (prepare all types of work permits "Confined space, Hot, excavation, etc.).
- CONTROL ROOM OPERATOR:
  - Commissioning and start-up experience.
  - Operating the steam cycle unit to be in normal operation & under dispatch request.
  - Responsible for Start-up & safe shut down of the unit in all cases (hot, warm & cold).
  - Follow equipment's defects & inform maintenance staff to correct the defective equipment's.
  - Implement daily & weekly and monthly periodical tests.
  - Preparing for outage activities (work permits, Master and Slave permits, locking and unlocking sheets, etc.).
  - Preparing and implementing (Cold, Warm & Hot) start-up & (Normal & Forced cooling) shut down procedures.

- Have a good experience to use logic diagram.
- Have an accurate use of MP2I, OCEN and SAP systems to arrange work requests and work permits with maintenance.

- LOCAL OPERATOR:
  - Commissioning and start-up experience.
  - Responsible for operating of all types of rotating machines.
  - Dealing with (Boiler, Turbine, Turbine Auxiliaries, etc.) to be in normal and safe operation.
  - Implement weekly, monthly & yearly periodical tests.
  - Operating power plant Utilities as:
    - Aux. Boiler DEUTCH BABCOCK (50 t/h, 16 bar, two solar burners) (PLC Operation).
    - Desalination water system WEIR ENTROPIE (2 x 60 t/h, multi effect type evaporator) (PLC Operation).
    - Demineralization Plant Metito (2 mixed bed unit 50 t/h per each) (PLC Operation).
    - Hypo Chlorite system (PLC Operation).
    - Gas Turbine for black start service, TUMA TURBOMACH (15MW- 6.6KV, 1500 rpm), Axial Compressors (14 stage, 11197 rpm, r.p =17:1), Combustion Chamber (annular, 21 injectors, torch ignition), Turbine (Reaction, three stages, 1200 ºC).
  - Responsible for firefighting system (Fire pumps, deluge valve, etc.).
  - Responsible for Emergency diesel generator 1MW.