

**102816-MEC-15MOS-E-2004**  
**Mechanical Operation Engineer**

Holds a B. Sc. in Mechanical Power Engineering and has about 12 years hands-on experience, including 9 years working as Operation Engineer and 3 years as Maintenance Engineer.

## PERSONAL DATA

Nationality : Egyptian  
Birth Date : 31/01/1980  
Gender : Male  
Marital Status : Married  
Residence : El-Behira

## EDUCATION

: B. Sc. in Mechanical Power Engineering, Tanta University, 2004

## LANGUAGES

Arabic : Native Language  
English : Good

## COMPUTER SKILLS

: Windows, MS Office, Internet

## TRAINING COURSES AND CERTIFICATIONS

- : On-shore training of ALSTOM HRSG, Nubaria.
- : Operation on-shore training of Alspa p320 distributed control system (DCS) by ALSTOM Company, Nubaria.
- : On-shore training of Siemens gas turbine, Nubaria.
- : On-shore training Mitsubishi steam turbine, Nubaria.

## CHRONOLOGICAL EXPERIENCE RECORD

**Dates** : From Nov. 2008 till now  
**Employer** : Middle Delta Electricity Production Co.  
**Project** : Nubaria Combined Cycle Power Station (1500MW):  
Two modules, each module consists of:

- Two Siemens CTG 250MW type V94.3A.
- Two horizontal Alstom HRSG.
- One Mitsubishi STG 250MW (HP, IP, LP).

**Job title** : Operation Engineer

- Job Description** :
- Start-up and shutdown of the power plant units with scada system (DCS).
  - Start-up of gas turbine after overhauling.
  - Start-up of heat recovery steam generator.
  - Start-up of steam and gas turbines.
  - Operation of rotating equipment such as circulating pumps, feed water pumps, closed cooling pumps, fire pumps, all plant pumps.
  - Perform the gas turbine and steam turbine during reliability.
  - Start-up and shutdown the machine during testing and turning gear.
  - Commissioning all auxiliaries of gas turbine (lube oil, hydraulic skid, pneumatic skid Fuel gas skid, fuel oil skid).
  - Commissioning of steam turbine auxiliaries (lube oil skid, hydraulic skid, gland steam skid, seal oil, vacuum skid).
  - Check the values of alarm and trip for power plant.
  - Make steam blow for HRSG component (super heater, economizers and evaporators).
  - Make steam blow for high pressure and medium, low pressure coils).
  - Connect and disconnect of power plant transformers, medium, low voltage switchgears (6.3KV, 220KV, 500KV).
  - Observe the work permits during the shift.
  - Solving the trouble shooting during the shift.
  - Operation of gas turbine during the shift SIEMENS V94.3A.
  - Have four gas turbine minor inspections of gas turbine including combustion chamber, burners, fuel pipe lines.
  - Chemical cleaning of burners, and inspection after cleaning by periscope, combustion chamber tiles to replace the failure tiles.
  - Have four gas turbine hot gas path inspections including combustion chamber, turbine, to inspect combustion chamber tiles, combustion chamber burners, replacement the turbine blades by new one and make treatment of old one by company.
  - Have two gas turbine major inspections including compressor, combustion chamber, turbine (replace compressor blade in case of failure, inspection of combustion chamber tiles, burners, turbine blades, bearing inspection, shaft inspection, pumps, valves).
  - Regulate the work between technicians.
  - Manage and regulate the work permits, during the shift.
  - Start-up and shutdown of power plant.
  - Commissioning of gas turbine after overhauling including valves, pumps, gas turbine start-up, increasing the load.
  - Check and tighten the connection of fuel lines including leakage test before start.
  - Check and observe the protection of auxiliaries such as vibration, temperature, pressures, hot and cold spots of blades.
  - Observe the power transformer during the shift.
  - Connect and disconnect the power plant transformers switchgears.
  - Commissioning of inlet cooling of compressor (wet compression).

**Dates** : From Sep. 2005 till Aug. 2008

**Employer** : Green Egypt for maining (calcium carbonate), 10<sup>th</sup> of Ramadan City

**Job title** : Maintenance Engineer

- Job Description** :
- Vibrating machine:
    - Separation magnesium seizer.
    - Hammer mill & Ball mill.
  - Pump station maintenance:
    - Horizontal pump & water pump.
    - Centrifugal pump & oil pump.
  - Belt conveyor with all units:
    - Drive units & pulley & drums & and all ball bearing.
  - All valves:
    - Butterfly & slide gate valves & diaphragm valves.
  - Classifiers:
    - Horizontal & vertical.
  - All filter work:
    - Dust filter & oil & separator & air filter.
  - Gearbox and all bearing.
  - All screw conveyor with ball bearing.
  - Welding work.