

# 103501-MEC-1MOS-E-2005

## Mechanical Maintenance & Operation Engineer

Holds a B. Sc. in Mechanical Engineering and a Diploma in gas turbine performance. Has more than 13 years hands-on experience working in maintenance, operation and commissioning.

### PERSONAL DATA

Nationality : Egyptian  
Birth Date : 12/11/1979  
Gender : Male  
Marital Status : Married  
Residence : El-Behira

### EDUCATION

: B. Sc. in Mechanical Engineering, Helwan University, 2005  
: High graduate Diploma in gas turbine performance, Tanta University, 2018

### LANGUAGES

Arabic : Native Language  
English : Good

### COMPUTER SKILLS

: Windows, MS Office, Internet  
: AutoCAD

### CHRONOLOGICAL EXPERIENCE RECORD

**Dates** : From Dec. 2005 till now  
**Employer** : Middle Delta Electricity Production Company (MDEPC)  
**Project** : Nubaria Power Station (2x750MW):  
Nubaria I & II Power Plant is one of the greatest plants in Egypt with 1500MW capacity, it consists of:

- 4 SIEMENS gas turbines.
- 2 MITSUBISHI steam turbines.
- 4 ALSTOM Heat Recovery Steam Generators.

Add extra 750MW to Nubaria capacity, it consists of:

- 2 GE gas turbines.
- 1 ALSTOM steam turbine.
- 1 STF Heat Recovery Steam Generator.

**Job titles** :

- Mechanical Maintenance & Operation Engineer for diesel (fire & emergency) (from 2007 till 2019)

- Job Description** :
- HRSG & Chemical Water Treatment & Fire Fighting Maintenance Engineer (from Nov. 2016 till now and from Apr. 2009 till Sep. 2015)
  - HRSG & Steam Turbine Commissioning Engineer (from Apr. 2014 till Aug. 2014)
  - Gas Turbine Operation Engineer (from Sep. 2006 till Apr. 2009)
  - HRSG Construction Mechanical Engineer (from Dec. 2005 till Sep. 2006)
  - Mechanical Maintenance & Operation Engineer for diesel (fire & emergency):
    - Responsible for diesel maintenance and make overhaul inspection.
    - Make operation check up for diesel.
    - Follow up the maintenance activities for the diesel.
    - Make major inspection for fire diesel pump.
  - Working as a HRSG & Water Treatment & Fire Fighting Maintenance Engineer, responsible for:
    - Selection and Inspection and testing and commissioning and start-up and assembly and disassembly and fix and preventive maintenance for hp/ip and lp (HRSG feed water pump) multi stage centrifugal pumps.
    - Selection and Inspection and testing and commissioning and start-up and disassembly and assembly and fix and preventive maintenance for pumps) single stage horizontal and vertical centrifugal pumps.
    - Maintenance for all rotary equipment.
    - Inspection and maintain and testing and repair for all high pressure steam valves types (gate, globe, knife, butterfly, ball and check valves) with different size and type operate (electrical motor and hydraulic and pneumatic).
    - All the routing and preventive maintenance activity.
    - Keeping the (4) HRSG (heat recovery steam generator) in reliable condition.
    - Maintain and repair piping and coil of HRSG.
    - Inspection and receiving spare parts for contracts (INITEC & ALSTOM & TERMOMICHANIC & BOCARD).
    - Doing any required modification.
    - HRSG water treatment (sewage, potable, demineralization, waste and oil separator, phosphate, hydrazine dosing pumps).
    - Emergency diesel generator (output 1.5MW) consist of 12 cylinders.
    - Maintenance all equipments of fire fighting (all types of deluge valves (preaction, dry, .....etc.), foam system, all types of pumps (diesel, electrical pump and jockey).
    - Make hydrostatic test for all underground pipes and for fire fighting pipes with vendor.
    - Inspection HRSC (drums, pipes and deareator) for cracks and make treatment for all crakes.
    - Make mechanical maintenance for all actuators (pneumatic, motors and hydraulic).
    - Make maintenance of steam sample system.
    - Inspection and fix of vertical sump pump (golfs, ksp .....etc.) and recirculation preheated pump.

- Maintenance of steam turbine (Mitsubishi 2x250MW).
- Make inspection for all main steam vales of (hp, ip and lp turbines).
- Make inspection of condenser and make plug any leakage pipes.
- Make inspection and fix of (condenser vacuum, condensate, water box vacuum, Closed cooling, lubrication oil) pumps.
- Make maintenance on service and instruments compressors.
- Make major inspection on turbine.
- Inspection on bearings (journal and axial).
- Inspection of hp, ip and lp blades (fixed and moving blades).
- Adjust of clearance between (fixed and moving blades) also between (lyberances of stationary parts and rotor).
- Make alignment of turbine's rotors.

**Dates** : From Sep. 2015 till Nov. 2016

**Employer** : GE

**Project** : Cairo East Power Station

**Job title** : Operation Engineer for gas turbine 2x25MW model TM 2500

**Job Description** :

- Make maintenance on service and instruments turbine.
- Operate and adjustment and maintenance for center fugal fuel oil skid.
- Operate turbine from initial start to cool down complete.
- Make major inspection on turbine.
- Inspection on bearings (journal and axial).
- Determine troubleshooting and dissolved it.
- Clean air filter and fuel oil filter and repair it.
- Change lube oil for turbine and GE.