101037-MEC-MOS-E-2004
Mechanical Engineer

Holds a B. Sc. in Mechanical Power Engineering and a postgraduate Diploma in Thermal Power Stations. Has about 9 years hands-on experience in operation, commissioning, start-up and maintenance of Power Plants.

PERSONAL DATA

Nationality	:	Egyptian
Birth Date	:	01/09/1982
Gender	:	Male
Marital Status	:	Married
Residence	:	El-Behira

EDUCATION

: B. Sc. in Mechanical Power Engineering, Alexandria University, 2004
: Postgraduate Diploma in Thermal Power Stations, Tanta University, 2008

LANGUAGES

Arabic	:	Native Language
English	:	Excellent

COMPUTER SKILLS

: Windows, MS Office (Word, Excel, Power Point), Internet

TRAINING COURSES AND CERTIFICATIONS

: Operation of gas turbine, Mitsubishi Heavy Industries, El-Atf site, Egypt.
: Steam turbine, generator and condenser maintenance, Ansaldo Energia training school, Genua – ITALY.
: Steam turbine, generator and condenser operation, Ansaldo Energia training school, El-Atf site, Egypt.
: CENTUM CS 3000 R3 Fundamentals for operation, Yokogawa Middle East, El-Atf site, Egypt.
: Horizontal and vertical sump pumps system, Toshiba training department, El-Atf Power Plant.

CHRONOLOGICAL EXPERIENCE RECORD

Dates	:	From 2009 till now
Employer	:	Middle Delta Electricity Production Company

Project : El-Atf Power Plant 750MW
(2x250MW GT by Mitsubishi, 1x250MW ST by Ansaldo Energia, 2 HRSG by NEM)

Job Description :

- Maintenance Engineer, Turbines Dept. (from 2011 till now):
  - Overhaul Maintenance for ANSALDO steam turbine 250MW (for 45 days), I worked with Ansaldo group of that Warranty inspection as follows:
    - Inspection for all bearings and make NDT.
    - Open HP, IP and LP cylinder and check the all axial & radial clearances for blades.
    - Inspection and NDT for all cylinder parts.
    - Check and correct alignment for HP-IP & LP and generator shaft.
    - Removing and inspection for all the control valves & stop valves and check for internal parts by NDT.
    - Perform general internal visual inspection.
  - Make combustion inspection for 2 units Mitsubishi gas turbine M701F 250MW:
    - Fuel nozzles, fuel line and fuel valves inspection.
    - Combustion chambers and cross fire tubes inspection.
    - Make chemical cleaning and NDT for burners.
    - Visual inspection of turbine & compressor blades.
    - Make alignment for transition pieces.
  - Hot gas path inspection for 2 Mitsubishi gas turbine M701F 250MW:
    - Removing the outer casing in the turbine section.
    - Lifting off upper sections of the turbine stationary blades carrier.
    - Rolling out the lower section of the turbine stationary blades carrier.
    - Removing blades / vans for repair / replacement.
    - Chemical cleaning for burners, visual inspection of turbine & compressor blades.
    - Check the axial & radial clearance for blades.
- Commissioning, Start-up & Shift Leader Engineer (as Owner), from 2009 till 2011:
  - Commissioning, start-up and operation of gas turbine Mitsubishi (2x250MW), (M701F) and its related auxiliaries such as:
    - Lube oil unit – hydraulic oil unit – purge air compressor – GT by pass damper – fuel gas compressor – vibration monitoring system – turbine cooling air cooler (TCA) – hydrogen filling system for cooling generator – hydrogen releasing system by using air after using CO2 – CO2 fire fighting system.
  - Commissioning, start-up and operation of NEM HRSG boilers such as:
    - Perform the chemical cleaning according to procedures for condensate system & feed water system.
    - Perform the steam blow-out activities for HP steam, HRH & CRH steam, LP steam lines.
  - Commissioning, start-up and operation of Steam turbine ANSALDO (250MW) and its related auxiliaries such as:
    - Lube oil system – hydraulic oil system – jacking oil system – hydrogen filling system for cooling generator – vacuum system

– STF condenser – seal oil system.
- Commissioning and testing for the following systems:
  - Condensate system & condensate pumps.
  - Feed water system (LP, HP/IP) FWP's.
  - Circulating water system & CW pumps.
  - Sump pumps.
  - Closed cooling system.
  - Service water system.
  - Instrument and service air compressor system.
  - Potable water system.
  - Cooling water intake equipment (sluice gate, traveling screen).
- Record the commissioning data for all systems mentioned previously.
- Report and advice the daily activities for all systems mentioned previously.
- Conducting all preparation steps of units in field to realize permissive for start-up from control room such as filling line of water free of bubbles, all safety valves ready, coolers in service, all skids of hydraulic and pneumatic ready, fire fighting ready, all electrical power source ready position of motorized valves in auto mode and ready to work locally, all manuals valves before and after control and motorized valves shall be open, etc.
- Responsible of start-up, operation, remarking alarms of units from control room and solve operation problems.
- Survey in field for more check and confirmation of safe operation of equipment.

Dates : From 2005 till 2009

Employer : Middle Delta Electricity Production Company

Project : Mahmoudia Power Station (300MW):
- 8x25MW gas turbine by GE (Frame 5)
- 2x50MW steam turbine by GE
- 8 HRSGs by NEM

Job Description :
- Shift Leader Engineer (from 2008 till 2009):
  - Unit start-up and shutdown procedures.
  - Monitoring parameters.
  - Testing the equipments.
  - Isolation and de-isolation procedures.
  - Safety work permit system.
  - Condensate system & condensate pumps.
  - Circulating water system & circulation pumps.
  - Feed water system & pumps.
  - Sump pumps.
- Operation Engineer (from 2005 till 2008):
  - HRSG system operation.
  - Auxiliaries system operation.
  - Steam turbine system operation.
  - Control Room Engineer.
- Fire fighting systems:
  - Commissioning, start-up and operation of fire fighting system by Toshiba.