101715-MEC-CMO-E-1998
Mechanical Engineer

Holds a B. Sc. in Mechanical Power Engineering and has about 14 years hands-on experience in construction, maintenance and operation of steam and gas turbines.

PERSONAL DATA

Nationality	:	Egyptian
Birth Date	:	16/01/1968
Gender	:	Male
Marital Status	:	Married
Residence	:	El-Behira

EDUCATION

: B. Sc. in Mechanical Power Engineering, Alexandria University, 1998

LANGUAGES

Arabic	:	Native Language
English	:	Very Good

COMPUTER SKILLS

: Windows, MS Office, Internet

TRAINING COURSES AND CERTIFICATIONS

: Professional off-site training on O&M of Mitsubishi gas turbine 250MW at the Training Center of MHI Ltd. Takasago machinery works and at Mitsubishi electric corporation energy systems center in Japan (30 days in Japan), Jun./Jul. 2008.

: Professional on-site training (30 days) on O&M of Mitsubishi gas turbine and gas turbine auxiliaries.

: Professional on-site training on O&M of Mitsubishi gas turbine 250MW air in North Cairo Station, from Dec. 2008 till Jan. 2009.

: Professional on-site training (20 days) on O&M of NEM heat recovery steam generator at El-Atf site.

: Professional on-site training (18 days) on O&M of Toshiba plant system & Services Corporation for Cranes, HVAC system, horizontal pumps & vertical sump pumps system, service gas system, diesel generator system, transformer protection panels.

: Professional on-site training on air compressor system O&M Comp Air Company.

: Professional on-site training on gas compressor system O&M Atlas Copco Company.

CHRONOLOGICAL EXPERIENCE RECORD

Dates : From Sep. 2011 till now
Employer : Middle Delta Electricity Production Company (MDEPC)
Project : EL-ATF Combined Cycle Power Station 750MW
Job title : Mechanical Maintenance Engineer
Job Description :

- Steam Turbine / Gas Turbine Maintenance Engineer, solve mechanical troubleshooting.
- 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.
- Follow up the maintenance activities for the steam and gas turbine 250MW each.
- All maintenance activities for all aux. equipments.
- Make combustion inspection for 2 units Mitsubishi gas turbine M701F 250MW, I worked with Mitsubishi group of that inspection as follows:
  - 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 units Mitsubishi gas turbine M701F 250MW, I worked with Mitsubishi group of that inspection as follows:
  - 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.

Dates : From Jul. 2008 till Sep. 2011
Employer : Middle Delta Electricity Production Company (MDEPC)
Project : EL-ATF Combined Cycle Power Station 750MW
Job title : Steam Turbine & Gas Turbine Construction Engineer
Job Description :

- Supervising for installation and performed all tests, measurements and inspection required by the owner (MDEPC) as a Witness Engineer for the following items:
  - Steam turbine & gas turbine installation steps and measurements.
  - Lubrication & Control and Seal Oil Systems.
  - STF condenser, its auxiliary's equipments.
  - Service and instrument air compressor.

- The relative major pumps like the circulation, service and condenser vacuum pump.

- 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.
- Perform the sequence test for the following systems:
  - Condensate system & condensate pumps.
  - Feed water system (LP, HP/IP) & FWP's.
  - Circulating water system & CW pumps.
  - Service water system.
  - Closed cooling system.
  - Instrument and service air system.
  - Potable water system.
  - Cooling water intake equipment (sluice gate, traveling screen).
- Type of work:
  - I was the Owner Authorized Representative for following all construction activities concerning one Steam Turbine and two gas turbines from release the shipments from the local contractor's facilities to EL-ATF site, Turbines measurements, piping installing, welding activities, hydro testes, insulation work, turbine clearance Records, performance test, punch list creation and review all submittals for approval.
  - Follow up all site mechanical construction activities.
  - Monitor and attend all types of NDT's.
  - Attend the consultant progress meetings and make sure that site activities are in line with project schedule.
  - Coordinate all mechanical activities (Mechanical Equipment and piping installation) with other contractor interfaces i.e. Civil, Electrical.
  - Review and approve MRR's (Material Receiving Reports).
  - Review and approve contractors' progress invoices.

Dates : From Jun. 1999 till Jul. 2008
Employer : West Delta Electricity Production Company (WDEPC)
Project : El-Mahmoudia Combined Cycle Power Station 2x300MW
Job title : Operation Shift Engineer
Job Description :

- Conversant with unit start-up and shutdown procedures.
- Monitoring parameters.
- Testing the equipments.
- Isolation and de-isolation procedures.
- Safety work permit system.
- Witness Engineer for the following maintenance sections for General Electric units frame 2 (25MW):
  - Combustion inspection including:
    - Fuel nozzles, fuel line and fuel valves inspection.
    - Combustion chambers and cross fire tubes inspection.
  - Hot gas path inspection including:
    - Combustion inspection steps.
    - Remove the turbine casing.
    - Remove and inspect transition pieces.

        - Remove and inspect the first stage nozzle.
    - Major inspection including:
        - Combustion and Hot gas path inspection steps.
        - Remove accessory coupling and load coupling.
        - Check alignment.
        - Initial rotor position check.
        - Establish sold foundation and install mech.
        - Remove compressor upper half's casings.
        - Remove turbine upper half casing.
        - Remove exhaust hood.
        - Remove upper half inlet casing.
        - Turbine and compressor clearance checks.
        - Remove and inspect 1st and 2nd stage nozzles.
        - Remove and inspect No. 1, No. 2 and thrust bearing (load & unload).
        - Inspect 1st and 2nd stage buckets, shrouded tip buckets.
        - Check and adjust rotor floating.
- Witness Engineer for steam turbine General Electric 56MW Mark V:
    - Make major inspection including:
        - Measure and record rotor radial position.
        - Measure and record rotor axial position.
        - Check couplings run-out.
        - Record alignment details.
        - Measure journals diameters.
        - Perform diaphragms alignment checks and all required adjustments.