100986-MEC-CO-E-2005
Mechanical Engineer

Holds a B. Sc. in Mechanical Power Engineering and has about 7 years experience in construction and operation of Combined Cycle Power Plants.

PERSONAL DATA

Nationality	:	Egyptian
Marital Status	:	Married

EDUCATION

: B. Sc. in Mechanical Power Engineering, Alexandria Unversity, 2005

LANGUAGES

Arabic	:	Native Language
English	:	Fluent

COMPUTER SKILLS

: Windows, MS Office, Internet

TRAINING COURSES AND CERTIFICATIONS

: Operating and maintenance of gas turbine frame M701F – 750MW.
: Maintenance and operation of steam turbine (Ansaldo).
: Firefighting design system in Engineers Syndicate.
: Duel cycle turbine operation in El-Mahmoudia Electric Company.
: TOSHIBA Horizontal Pumps & Vertical Sump Pumps System.
: NEM Company for Heat Recovery Steam Generators.
: Yokogawa Middle East (YME) – Bahrain.
: CENTUM CS 3000 R3 Fundamentals for operation.

CHRONOLOGICAL EXPERIENCE RECORD

Employer : Middle Delta Company of Electricity Production

Project : EL-ATF Combined Cycle Power Station:

- Mitsubishi Gas Turbine (Frame M701F), two units – 250MW each one (Diasys).
- 21/220KV Set Up Transformers.
- One Steam Turbine.
- Steam turbines auxiliaries.

- Two HRSG.
- 6.6KV Switchgear.

Job title : Mechanical Engineer

Job Description : Installation of two Mitsubishi gas turbine units frame M701F + one steam turbine 250MW Ansaldo.

Employer : Advanced System of Electro-mechanical Engineering Company (ASMEE)

Job title : Mechanical Site Engineer

Employer : Mobiserve ORASCOM

Job title : Mechanical Site Engineer

Project : El-Mahmoudia Combined Cycle Power Station:

- General Electric Gas Turbine (Frame 5), 8 sets – 25MW each one (Mark II).
- Rolls Royce Gas Turbine (Double End – SK 60), 4 sets – 50MW each one.
- 220/66/11KV Transformers substations.
- 11/220KV Set Up Transformers.
- 220KV Switchyard (Sf6 circuit breakers – Isolators – wave Trap – Surge arrestor, etc.
- General Electric Steam Turbine (Mark V) 2 sets.
- Steam turbines auxiliaries (DCS) Control.
- Water treatment (PLC) control.
- Tube cleaning & Debris filter system (PLC).
- Feeder 220KV (6 sets) & feeder (66KV).
- 11/6KV Transformers.
- 6.6KV Switchgear (Sf6 circuit breakers).

Job title : 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.
- I watch-ness for the following maintenance sections for General Electric units frame 5 (25MW):
  - Overall major maintenance, including:
    - Take out and maintenance the turbine rotor.
    - Replacement the turbine blades.
    - Take out the generator rotor.
  - 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 inspection steps.
  - Hot gas path inspection steps.
  - Remove accessory coupling and load coupling.
  - Inspect and check alignment.
  - Take initial rotor position check.
  - Establish sold foundation and install mech.
  - Support jacks under compressor and turbine casings.
  - Remove compressor upper half's casings.
  - Remove turbine upper half casing.
  - Remove exhaust hood.
  - Remove upper half inlet casing.
  - Take 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.
  - Inspect 1st and 2nd stage shrouded tip buckets.
  - Check and adjust rotor floating.

- I also watch-ness for the following maintenance sections for steam turbine GE (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.
  - Pumps maintenance and balancing.
  - Overall maintenance for condensate pumps malted stages (10 stages), vertical pumps.
  - Maintenance for travel screen and main cooling pumps, hydraulic power unite, air compressors and steam turbine auxiliaries such as ejectors, lubrication system and condenser.