101298-MEC-CM-E-2000
Senior Mechanical Engineer

Holds a B. Sc. in Mechanical Power Engineering and has about 12 years hands-on experience in construction and maintenance.

PERSONAL DATA

Nationality	:	Egyptian
Birth Date	:	02/05/1972
Marital Status	:	Married

EDUCATION

: B. Sc. in Mechanical Power Engineering, Mansoura University, 2000

LANGUAGES

Arabic	:	Native Language
English	:	Good

COMPUTER SKILLS

: Windows, MS Office, Internet

TRAINING COURSES AND CERTIFICATIONS

: Two months training in "WEPCO" Petroleum Company.

: Off-shore training in Japan for construction and maintenance of Gas Turbine and Auxiliaries by MHI (Mitsubishi Heavy Industries Ltd.).

: Off-shore training in Japan for construction and maintenance of Generator and Auxiliaries by MELCO (Mitsubishi Electric Corporation).

: On-shore training in Sidi Krir Power Station for construction and maintenance of Gas Turbine and Auxiliaries by MHI (Mitsubishi Heavy Industries Ltd.) and construction and maintenance of Generator and Auxiliaries by MELCO (Mitsubishi Electric Corporation).

: On-shore training in Sidi Krir Power Station for construction and maintenance of Air compressors, Horizontal and Vertical pumps, Crans, Fire protection system, Heating Ventilations and Air condition system (HVAC system) by TOSHIBA Plant System & Service Corporation).

: 30-hours occupational safety and health training course in OSHA #500 construction industry safety & health (29 CFR 1926).

CHRONOLOGICAL EXPERIENCE RECORD

Dates	:	From 2011 till now
Employer	:	Kharafi National

Projects :

- Sabiya Power Station in Kuwait:
  - Construction of 3 blocks Combined Cycle Project (700MW x 3), 6 units GT type GE frame 9FA (6x240MW) – 3 Steam Turbines STG type GE D11 (3x240MW).
- South Zour Power Station in Kuwait:
  - Construction for 2 blocks Combined Cycle Project (500MW x 2), 5 CTG (5x140MW) & 2 STG (2x240MW) type ALSTOM.

Dates : From 2004 till 2011

Employer : West Delta Electricity Production Company

Project : Sidi Krir Power Station

Job Description :

- Work in maintenance for:
  - Steam Turbines (320MW x 2), Centrifugal pumps, piston pumps, feed boiler pumps, diaphragm pumps, Centrifugal air Blowers and Screw Air Blowers.
  - Centrifugal air compressors and reciprocating air compressors.
  - Hydraulic valves, Pneumatic valves, Electrical valves and Manual valves.
- Work in construction:
  - Reading and reviewing the tender document and joining of the evaluation for the tenders.
  - Following and supervising the lifting of the heavy equipments (2 Gas Turbines, 2 Generators, 2 Starting units).
  - Following and supervising the installation of the base plates for the Gas Turbines and Generators.
  - Following and supervising the installation activities of the heavy equipments (adjusting for the centering and leveling the heavy equipments).
  - Following and supervising alignments between the Turbine and Generator, Generator and Starting Unit and the equipment related to the starting Unit (Turning gear, torque converter and Auxiliary gear).
  - Following and supervising alignments for the horizontal centrifugal pumps, piston pumps, screw pumps, vertical pumps & centrifugal fuel gas compressors.
  - Following and supervising the installation activities of the intake air filter, inlet air duct, exhaust duct, diverter damper & by pass stack.
  - Following installation of the condenser and Steam Turbine.
  - Following installation of the Auxiliaries for 2 Gas turbines (fuel gas Compressors “Centrifugal type", purge air compressors "reciprocating type", Pulse air compressors "screw type", water pumps, fuel oil pumps, lube oil pumps, starting motor, control oil skid, seal oil skid and fuel gas treatment sys.).
  - Following and supervising the installation activities of all equipments for the mechanical contract (pumps, air compressors, heat exchangers, EDG, piping and valves).
  - Reviewing and Receiving of Special Tools and Spare Parts for CTGs.

Dates : From 2002 till 2004

Employer : Ports & Light Houses Administration

Dates : From 2000 till 2002

Employer : Continental Trading & Shipping Co.

Job Description : Worked in Cooling Towers Construction Projects, Life Stream Plants Projects on Barge 11, 12, 17 for PMS Co., Fire Fighting System with CO_2 on Barge 11, 12, 17 for PMS Co., Pipe Lines and pumps construction.

Field of experience :

- Maintenance:
  - Preparation the spare parts and special tools for the combustor baskets inspection (8000hr) and Turbine inspection (16000hr) for gas turbines.
  - Following and supervising the inspection and maintenance for the 4 Gas Turbines x 250MW (8000 hrs "combustor baskets") – Feb. 2010 in El-Atf Power Station & Sep. 2010 in Sidi Krir Power Station.
- For each gas turbine:
  - Replacement the combustor baskets (20 combustor baskets).
  - Replacement the Transition Pieces (20 Transition Pieces).
  - Replacement the Cross Flame Tubes (19 Cross Flame Tubes).
  - Replacement the bypass elbows (20 bypass elbows).
  - Check by NDT for the (combustor baskets, Transition Pieces, Cross Flame Tubes, Bypass elbows, Fuel Nozzles).
  - Replacement Fuel Nozzles (main & pilot).
  - Check the hot bearing #1 (turbine side) & bearing #2 (compressor side).
  - Check and cleaning the IGV & 1st stage for Axial compressor.
  - Visual inspection for the OGV and Exhaust duct.
  - Following and supervising the inspection and maintenance for the 4 Gas Turbines x 250MW (16000 hrs "combustor baskets and hot bath"), Jan. 2011 in El-Atf Power Station & Apr. 2011 in Sidi Krir Power Station.
- For each gas turbine:
  - The same work for 8000 hrs.
  - Replacement the blades and vans for Row # 1 & Row # 2 for Turbine.
  - Visual inspection for the blades and vans for Row # 3 & Row # 4 for Turbine.
  - Replacement the seal house between stage # 1 & stage # 2 seal house between stage # 2 & stage # 3 for Turbine.
  - Inspection for the mechanical over speed trip.
  - Check for Aux. Gear and Turning Gear.
- Tests:
  - Following the NDT test of welding, pressure test by water and Nitrogen, leak test and check of the piping for all systems.
  - Reinstatements and checking of the piping and equipments for all systems.
- Commissioning and start-up:
  - Following the heat run for electric motor with no load and with load coupled with its equipment.
  - Following the flushing for all systems by oil, air & demin. Water.
  - Following and supervising the performance test for CTGs.

- Following the operation of all mechanical equipments during Reliability Run test for CTGs.
- Following the operation of all mechanical equipments during Reliability Run test for STG.