100042-MEC-O-E-1989
Mechanical Operation Engineer

Holds a B. Sc. in Mechanical Power Engineering and has about 21 years experience in fossil fuel power plants from tests through start-up and operation. Also has the complete knowledge and experience in mechanical, electrical and I&C systems start-up and operation requirements. Capable to prepare and execute plant tests i.e. Reliability, Heat rate and Dependable Capacity tests, also all tests for different systems.

PERSONAL DATA

Nationality	:	Egyptian
Birth Date	:	13/05/1965
Marital Status	:	Married

EDUCATION

: B. Sc. in Mechanical Power Engineering, Helwan University, 1989

LANGUAGES

Arabic	:	Native Language
English	:	Good
German	:	Good

COMPUTER SKILLS

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

TRAINING COURSES AND CERTIFICATIONS

: Training course on Reverse Osmosis and PermaCare in Dubai, training conducted by Nalco Gulf Ltd.

: Advanced Operation Training for Shoubra El-Kheima Thermal Power Plant (4x325MW), Ansaldo Dual Fuel (N.G. & HFO, Natural Circulation Boiler, Westinghouse T/G), training conducted by Bechtel and Egyptian Electricity Holding Company (EEHA), Mar. till Sep. 1991

: Operation and maintenance of steam power plants training course in Cairo North Power Plant, training conducted by Egyptian Electricity Holding Company (EEHA), 3 months

CHRONOLOGICAL EXPERIENCE RECORD

Dates	:	From 2006 till now
Project	:	Sidi Krir Steam Power Plant (2x320MW):

Comprising:

- Babcock & Wilcox Dual fire N.G./HFO boiler.
- Alstom STG with HP, IP and LP cylinders and H2 cooled Generator.
- HP/LP bypass.
- Sea water cooled condenser.

Job title : Shift Operation Engineer

Job Description :

- Responsible for the shift-to-shift safe operations, safe production performance and safe environmental performance of the power generation facility.
- Responsible for safe start-up and shutdown of the power generation facility in accordance with equipment vendor recommendations and guidelines, both in normal and emergency situations.
- Diagnosing and troubleshooting plant operation where particular operating problem exist, takes action where possible to restore running situation to normal.
- Ensure performance monitoring is carried out and plant performance is optimized.
- Liaison with maintenance functions concerning routine and breakdown maintenance, including issuing work orders (WO) when required.
- Maintain operational liaison with the Egyptian Electricity Holding Company (EEHC) to ensure power export in accordance and compliance with Power Purchasing Agreement (P.P.A.).
- Co-ordinate safety with regards to shift work activities, release of plant equipment for maintenance and the carrying out of the isolation of high voltage equipment.
- Document plant performance with shift logs, operational logs, defect reporting, fault reporting and writing, revision and review of operational procedures.
- Co-ordinate Plant Operators and Assistance Plant Operators activities in conjunction with smooth and safe operations of the power generation facility, also review their log sheets.
- Training the staff on unit operation & monitoring from Control Room through the Distributed Control Systems (DCS).
- Supervise all plant activities, plant protections and plant performance.
- Write start-up and shut down procedures according to operation manuals.
- Aiding and assisting engineering personnel during commissioning phases in bringing plant to full operation.

Dates : From 2001 till 2006

Project : Sidi Krir Steam Power Plant

Job title : Field & Control Room Operation Engineer

Job Description :

- Assisted the commissioning team (Bechtel team) for the most equipment of the plant.
- Start-up of various systems from the first starting conditions.
- Review engineering & drawing reviews and complete it.
- Participate in issuing plant systems operation procedures and its development.
- Conduct the walk down and as built drawings.

- Carrying out the plant tests like performance test, Reliability test, Dependable capacity test and Heat rate test.
- Perform isolation and safety lock out tag out of plant equipments.

Dates : From 2000 till 2001
Employer : Siemens AG
Project : Ayoun Moussa Steam Power Plant (2x320MW):
Comprising:
- Babcock & Wilcox Dual fire N.G./HFO boiler.
- Siemens STG with H, IP and LP cylinders, Siemens H2 cooled Generator and Siemens sea water cooled condenser.
- HP/LP Steam Bypass system.

Job title : Start-up & Shift Charge Engineer
Job Description :
- Monitor and operate the following systems through the Teleprem XP plant automation system (Turbine Distribution Control System, TDCS):
  - Two Siemens manufactured 320MW Turbine & Generator Units.
  - Auxiliary systems for Turbine and Generator.
  - The main Condenser and its auxiliary systems.
- Assisting the team with the commissioning of both units.
- Lead the plant through the 30-days Reliability Test Run.
- Carrying out the performance Guarantee Test (Acceptance Test).
- Train the client operators in the safe and efficient operation of the two Siemens turbine generator units and its auxiliaries.

Dates : From 1990 till 1999
Employer : Egyptian Electricity Authority (EEA)
Project : Shoubra El-Kheima Steam Power Plant (4x325MW):
Comprising:
- Ansaldo dual fired (N.G./HFO), drum type, natural water circulation, reheat boiler.
- Westinghouse STG with H, IP and LP cylinders, H2 cooled Generator and river water cooled condenser.
- HP/LP Steam Bypass system.
- BOP including 7 Stage regenerator feed water heaters, Circulating water, Closed cooling water, Water supply, Waste water, Demineralization, Chlorination, Sampling, Dosing, Compressed air, Emergency GT, Fuel handling, Aux Boiler, H2 production Systems.
- Westinghouse Solid State Control System.

Job title : Operation Engineer
Job Description :
- Doing the routine checks of the power plant equipments (4x325MW, 6 front and rear burner levels, N.G. and Mazout fired, drum type purchased by Ansaldo). The turbine purchased by Westinghouse.
- Report the male function of the abnormal operation of any equipment.
- Perform all the required planned and emergency tests.
- Isolate the equipments for maintenance and release it to put it in operation.
- Start-up and shut down the unit and its auxiliary systems through its control panel system.
- Analyze problem and take the right action.