101671-ELE-1OS-E-2008
Shift Engineer

Holds B. Sc. and M. Sc. in Electrical Engineering and has over 9 years hands-on experience working in operation, commissioning and start-up at Mahmodia Power Plant.

PERSONAL DATA

Nationality	:	Egyptian
Birth Date	:	02/08/1983
Gender	:	Male
Marital Status	:	Married
Residence	:	El-Behira

EDUCATION

: B. Sc. in Electrical & Communication Engineering, Alexandria University

: M. Sc. in Electrical Engineering, Tanta University

LANGUAGES

Arabic	:	Native Language
English	:	Very Good

COMPUTER SKILLS

: Windows, MS Office, Internet

: Matlab

TRAINING COURSES AND CERTIFICATIONS

: Trainings at Middle Delta Electricity Production Company:

- ANSALDO AE94.2 170MW gas turbine operation and maintenance.
- GE 25MW gas turbine and its boiler operation and maintenance.
- GE 58MW steam turbine (Combined Cycle) operation and maintenance.
- SIEMENS GIS operation and electrical system protection.
- CUMMINS diesel engine operation and maintenance.
- Start-up, shutdown for gas turbine, boiler and steam turbine (Combined Cycle).
- Operation from local control (MKII, MKV, symphony+), and remote control (DCS).
- Black start for gas turbine, boiler and steam (combined cycle).
- Training on H.V switchyard, power transformers, M.V transformers, current transformers (CT), voltage transformers (VT), Low-voltage C.B, Magnetic C.B, Medium-voltage C.B, High-voltage C.B and Sulfur hexafluoride (SF6) high-voltage circuit breakers.

- Occupational Safety and Health.

: Certified in Computer Science from Information and Communication Technology Center (ICTC), Tanta University.

: Training on MATLAB, Alexandria University.

CHRONOLOGICAL EXPERIENCE RECORD

Dates : From Aug. 2008 till now

Employer : Middle Delta Electricity Production Co.

Project : Mahmodia Power Plant 650MW:

- Total load 656MW Power Station as follow:
  - 2 GT units (ANSALDO AE94.2) rated at 170MW symphony+ (DCS).
  - 8 GT units (GE frame 5) rated at 25MW MK6.
  - 8 NEM Vertical HRSG, DCS Elsag Bailey Infi90.
  - 2 ST units (GE) combined cycle rated at 58MW MK5 speed tronic.
- Two diesel engines (CUMMINS) used for black-start condition.
- G.T can operate by natural GAS or SOLAR or mixture.
- Propane ignition gas for SOLAR start-up.
- Water treatment unit and solar treatment unit.
- Co2 and water fire fighting systems.
- Three Distribution transformers 220/66/11KV feeds 8 transmission lines 66KV.
- 220KV GIS and AIS switchyards & 66KV AIS switchyard.

Job title : Shift Engineer

Job Description :

- Leading the shift team in the operation of the Power Station, H.V GIS and AIR switchyards.
- Responsible for operating, monitoring, signal tracing and fault analysis.
- Preparing daily reports about troubles & operation.
- Operate the plant switchgear (220KV/66KV/11KV/6KV/380V) and perform corresponding switching schedule.
- Investigate and correct the causes of abnormal condition.
- Coordinating with national control center of power flow.
- Supervision of 2x170MW ANSALDO gas turbine Simphony + operation.
- Supervision of 2x58MW GE steam turbine Mark 5 operation.
- Supervision of 4x25MW gas turbine Mark 6 operation.
- Supervision of 4x25MW gas turbine Mark 2 operation.
- Keep turbine-generator units within load capability curves.
- Supervision of 4x50 tons/hr heat recovery steam generators (NEM) ABB DCS.
- Experience developed on symphony+, Mark V, Bailey Infi90 DCS Computerized systems SW and HW configuration, with physical field layout requirements.
- Ensure following safety rules before, during and after maintenances.
- Functionally check the control systems after maintenance.
- Following start-up, shut down and control sequence instructions.
- Inspect the unit's and its auxiliaries, electrical, mechanical, control and instrumentation equipment condition prior to start-up, during operations and after shutdown.
- Responsible for complete filling of operations documentations for overall

unit performance analysis.

- Responsible for follow up the installation and commissioning of the new project of two ANSALDO (AE94.2) GT units from the beginning till the finished. And make reports about all tests such as first fire GAS, first fire SOLAR with the ignition gas, change over from GAS to SOLAR and reverse, dummy synch, load rejection at different loads, house load and performance test for operation with gas and solar.
- Trainer for new engineers.