101576-ELE-O-E-2005
Electrical Operation Engineer

Holds a B. Sc. in Communication & Electronics Engineering and has about 7 years of operation experience in a large gas based modern combined cycle power plant (Siemens CTG, GE CTG, MITSUBISHI STG, Alstom HRSG).

PERSONAL DATA

Nationality	:	Egyptian
Birth Date	:	24/07/1983
Marital Status	:	Single

EDUCATION

: B. Sc. in Communication & Electronics Engineering, Cairo University, 2005

LANGUAGES

Arabic	:	Native Language
English	:	Very Good

COMPUTER SKILLS

: Windows, MS Office (Word, Excel, Access, Power Point), Internet
: Matlab

TRAINING COURSES AND CERTIFICATIONS

: Middle Delta Electricity Production Company training course for Gas turbine Component and Operation (Siemens CTG x 250MW type V94.3A), Nubaria.
: Middle Delta Electricity Production Company training course for Steam turbine Component and Operation (Mitsubishi 250MW Hp, Ip, Lp), Nubaria.
: Steam turbine on-shore training for Nubaria Power Station I & II 2x750MW combined cycle project under direction of Mitsubishi Heavy Industries Ltd., Nubaria.

CHRONOLOGICAL EXPERIENCE RECORD

Employer : Middle Delta Electricity Production Company (MDEPC)

Project : Nubaria Power Station 3x750MW

It´s a new station finished in Oct. 2006, this power station consists of 4 CTGs and 2 STGs with total power 1500MW, in addition to the extension (2 CTGs and 1 STG) 750MW which finished in 2010 to complete the total power of the station to be 2250MW (the biggest power station in Egypt). It consists of:

- 4 CTGs (SIEMENS), 2 CTGs (GE).

- 2 STGs (MITSUBISHI), 1 STG (ALSTOM).
- 500KV Double Bus bar Double Breaker switchyard (HITACHI).
- 220KV Double Bus bar Single Breaker with Bus Coupler switchyard (ABB).
- Two 500KV OHTL.
- Eight 220KV OHTL.
- Four tie transformers 500/220/11KV.

Job title : Shift Engineer

Job Description :

- Control Room Operating Engineer in Nubaria Combined Cycle Power Station (2x 750MW):
  - Two modules, each module has:
    - Two Siemens CTG x 250MW type V94.3A.
    - Two Alstom HRSG (HP & IP & LP).
    - One Mitsubishi STG (250MW).
  - One module consists of two GE combustion gas turbine 250MW type 9FA.
  - 220KV switchyard.
  - 500KV switchyard.
  - Four tie transformers 500/220/11KV.
  - Eight outgoing circuits 220KV.
  - Two outgoing circuits 500KV.
  - Medium and low switchgears.
- Lead the engineers and technical groups to operate 4 Combustion Turbine Generators (Siemens), with 2 combined Steam Turbine Generators (Mitsubishi) and all related equipments.
- Contact with the dispatch to mange the total power needed.
- Record and write all necessary data and information.
- Manage the power station in disturbed situations.
- Shut down and start-up the module (2 gas turbines (2x250MW) with two combined boilers generates steam for one steam turbine 250MW).

Project : Nubaria Combined Cycle Power Station

Job title : Operation Engineer in D.C.S. Control Room

Job Description :

- Two modules, each module consists of:
  - Two Siemens CTG 250MW type V94.3.
  - Two horizontal Alstom HRSG.
  - One Mitsubishi STG 250MW HP, IP, LP (turbine).
- 220KV switchyard ABB.
- 500KV switchyard JAPAN AG.
- Four tie transformers 500/220KV ZTR.
- Low voltage switchgears.

Field of experience :

- Start-up, operation and maintenance for the Siemens gas turbine 250MW.
- Corrective & preventive maintenance for the following:
  - 16.5/500KV main transformers for Siemens gas turbines.
  - 15/500KV main transformers for Mitsubishi steam turbines.
  - 500 MVA Tie transformers (500/220/11KV) from ZTR Ukrainian Company.
  - 500KV Conventional Air Insulated Switchyard.
- 6 Incoming feeders from main transformers to 500KV bus bar.

- 4 Outgoing feeders from bus bar to 500/220/11KV Tie transformers.
- 2 Outgoing feeders from 500KV bus bar to Cairo 500 and Sidi Krir 500.
- 220KV Conventional Air Insulated Switchyard:
  - 4 Incoming feeders 220KV.
  - 8 Outgoing feeders 220KV.
  - 220KV Bus Coupler.
- Live Line Insulator Washing System (LLIWS).