

Holds a B. Sc. in Electrical Power Engineering and has about 10 years hands-on experience working in operation, commissioning and start-up at Nubaria Combined Cycle Power Plant.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 01/10/1984
Gender : Male
Marital Status : Married
Residence : El-Behira

EDUCATION

: B. Sc. in Electrical Power Engineering, Al-Azhar University, 2007

LANGUAGES

Arabic : Native Language
English : Very Good

COMPUTER SKILLS

: Windows, MS Office, Internet

TRAINING COURSES AND CERTIFICATIONS

- : On-shore Training of Gas Turbine Siemens V94.3A each one produces 250MW, Nubaria (Oct. 2008).
- : On-shore Training of High and Medium Voltage (500KV/220KV/6.3KV), Nubaria (Nov. 2008).
- : On-shore Training of Steam Turbine Operation and Maintenance by Mitsubishi Heavy Industries Company, Nubaria (Dec. 2009).
- : On-shore Training of ALSTOM HRSG, Nubaria.

CHRONOLOGICAL EXPERIENCE RECORD

Dates : From Jul. 2014 till now
Employer : Middle Delta Electricity Production Company (MDEPC)
Project : Nubaria Combined Cycle Power Plant (3x750MW):

- Two modules, each module consists of:
 - Two Siemens CTG 250MW type V94.3A
 - Two horizontal Alstom HRSG
 - One Mitsubishi STG 250MW (HP, IP, LP)

- 220KV Switchyard
 - 500KV Switchyard
 - Four tie transformers 500/220/11KV
- Job title** : Shift Charge Engineer
- Job Description** :
- Start-up and Shutdown of the Power Plant Units with SCADA System.
 - Commissioning and start-up of Gas Turbine after Overhauling.
 - Connect and disconnect of Power Plant Transformers, Medium, Low Voltage Switchgears.
 - Calculate the Performance of the Operating Units such as Steam and Gas Turbines.
 - Perform as Witness of 4 Hot Gas Path Inspections, Minor Inspection, Major Inspection of V94.3A Siemens Gas Turbine.
 - Perform and commissioning of Power Plant Transformers around 310MVA.
 - Perform of Power Plant Protection of Equipment such as Gas Turbine, Steam Turbine, Generators, Transformers, Transmission Line.
- Dates** : From Mar. 2010 till Jul. 2014
- Employer** : Middle Delta Electricity Production Company (MDEPC)
- Project** : Nubaria Combined Cycle Power Plant (3x750MW)
- Job title** : Combined Cycle Operator
- Job Description** :
- Operating Engineer in Gas Turbine Generator:
 - Commissioning of gas turbine after overhauling including valves, pumps, gas turbine start-up, increasing the load.
 - Check and tighten the connection of fuel lines including leakage test before start.
 - Check and observe the protection of auxiliaries such as vibration, temperature, pressures, hot and cold spots of blades.
 - Observe the power transformer during the shift.
 - Connect and disconnect the power plant transformers switchgears.
 - Commissioning of inlet cooling of compressor (wet compression).
 - In SIEMENS gas turbine we make the overhauling of the machine due to operating hours:
 - Minor inspection at 8000hr.
 - Minor inspection at 16000hr.
 - Hot gas path inspection at 25000hr.
 - Minor inspection at 33000hr.
 - Minor inspection at 41000hr.
 - Major inspection at 50000hr.
 - Operating Engineer in Steam Turbine Generator:
 - General Description of Steam Turbines.
 - Surface Condenser.
 - Gland Steam Condenser & Fan.
 - Lube Oil Cooler.
 - Condenser Vacuum Pump.
 - Lube Cleaning System.
 - Debris Filter.
 - Condenser Water Vacuum Pump.
 - Turbine Governing System.
 - Operation of Steam Turbine.
 - DEH Control.

- ATS Control.
- Turbine Inter Lock.
- Turbine Control System.
- Auxiliary Equipment Control.
- Operation for Generator & Generator Auxiliary Systems.
- Generator Protection & Control Systems.
- Generator Auxiliary Systems.
- Generator Excitation Systems.

- Dates** : From Nov. 2008 till Mar. 2010
- Employer** : Middle Delta Electricity Production Company (MDEPC)
- Project** : Nubaria Combined Cycle Power Plant (3x750MW)
- Job title** : Main Operation Engineer in Control Room & Switchyard 500/220KV
- Job Description** :
- Conventional Air Insulated Switchyard (AIS).
 - Sumitomo Corporation CONISYS (Tokyo & Cairo) 500KV.
 - ABB Corporation (Cairo) 220KV.
 - Local Area and Equipments:
 - 500KV Switchyard:
 - 9 Power Transformers (ZTR & Hyundai).
 - 4 TFRs ZTR of CTG Turbines 16.5KV/500KV & 2 TFRs ZTR of STG Turbine 15KV/500KV.
 - 2 TFRs Hyundai of CTG Turbines 15.75KV/500KV & 2 TFR Hyundai of STG Turbine 19KV/500KV.
 - 2 Bus bars 500KV, 3000 A (Double Bus bars Double Breaker).
 - 15 Bays consists of 6 CTGs C.Bs & 3 STGs C.Bs.
 - 4 ZTR Tie Transformers (each 3 Single Phase Auto TFR) 500/220/11KV.
 - 2 OHTL 500KV.
 - 12 Bays of "Sumitomo Japan" Dead Tank C.Bs.
 - 3 Bays of "Areva" Live Tank C.Bs.
 - CONISYS Live Line Insulator Washing (LLIW) System.
 - Capacitive & Inductive V.Ts.
 - Wave Traps.
 - 220KV Switchyard:
 - 2 Bus bars 220KV, 3000 A (Double Bus bar Single Breaker).
 - 220KV Bus Coupler.
 - 4 OHTL 220KV (Double Circuit).
 - 12 Bays of "ABB" Live Tank C.Bs.
 - CONISYS Live Line Insulator Washing (LLIW) System.
 - Capacitive & Inductive V.Ts.
 - ABB C.Ts.
 - Wave Traps.
 - Control Room:
 - To control the system using:
 - AREVA Protection, Automation and Control Integrated System (PACIS).
 - MICOM Bay Control Unit by AREVA (BCU) Ver.C264 for Control.
 - MICOM by ALSTOM for Protection as follows:
 - P742, P741 for Bus bar protection.
 - P437, P442 for Distance Protection.
 - P143 for Breaker failure.

- P126 for Backup Protection.
- P632 for Differential Protection.
- ABB Protection Relays as follows:
 - REB 500 for Bus bar Protection.
 - Reel 316, Reel 531 for Distance Protection.
 - Auto Reclosed System.
- CONISYS Live Line Scada Control Unit.
- CONISYS & ABB Chargers, Rectifiers, Batteries and Inverters 400v Ac>> 220,48v Dc Room (UPS System).