102567-ELE-1OS-E-2008
System Operation Engineer

Holds a B. Sc. in Electrical Engineering and has over 9 years hands-on experience working in operation and start-up at Power Plants.

PERSONAL DATA

Nationality	:	Egyptian
Birth Date	:	19/08/1986
Gender	:	Male
Marital Status	:	Married
Residence	:	Currently Dubai

EDUCATION

: B. Sc. in Electrical Engineering, Mansoura University, 2008

LANGUAGES

Arabic	:	Native Language
English	:	Very Good

COMPUTER SKILLS

: Windows, MS Office (Word, Excel, Power Point), Internet
: AutoCAD
: Matlab
: Automatic Control, PLC, SCADA-DCS

TRAINING COURSES AND CERTIFICATIONS

: ABB Arab Training Course:
- General course about the breaking equipments (fuses, Isolating Switches, Circuit Breakers, ...).
- General course about the Distribution Transformers.
- Design and installation of Distribution Boards (LV & MV).

: Siemens Training Course:
- Overview about the basics of Protections schematics of Power Plant electrical equipments.
- The usage of digital protection device (Siprotec 4 devices) to protect every electrical equipment.
- The wiring and connections needed for each protection device.
- Installation and operation of the Siprotec 4 devices software (Digsi 4.82).

: Shoubra El-Kheima Electrical Power Plant: Overview about the different mechanical and electrical systems used in the thermal power plant.

: Areva Training Course:
- Overview about the basics of Protections schematics of Generators in a Power Plant.
- The usage of digital protection device (Micom devices).
- The wiring and connections needed for each protection device.
- Installation and operation of the Micom devices software.

: Trainings at New Talkha Combined Cycle Power Plant 750MW:
- Components and Gas turbine operation course SIEMENS V94.3A - Teleperm XP control system.
- Steam turbine operation 250MW using simulator system.
- Gas turbine operation course SIEMENS V94.3A using simulator system.
- CMI Energy + Skoda Praha HRSG on-job training.
- The OV010 - WIN Ovation Windows Operator Course (Emerson Process Management, at New Talkha Combined Cycle Power Plant 750MW).

CHRONOLOGICAL EXPERIENCE RECORD

Dates : From Jan. 2018 till now

Employer : Dubai Electricity and Water Authority (DEWA)

Projects : G (1000MW) & M (2000MW) Stations

Job title : System Operation Engineer

Job Description :
- Power Side:
  - Taking care of Gas Turbine and steam turbine as per regular operation practice.
  - Start-up and shutdown of gas turbines, steam turbine and HRSG boilers in different conditions.
  - Operating plant parallel with gas availability and maintaining load as per Load Dispatch Centre requirement.
  - Ensuring reporting of defects during normal running condition.
  - Preparing, issue and cancelation of permits during regular operation and unit shutdowns.
  - Following up mechanical isolations & ensuring safety measures during activities.
  - Planning and effecting change-over schedules of various equipment and instruments to increase machine up time and equipment reliability.
  - Identifying areas of obstruction / breakdowns and taking steps to rectify the equipment through application of troubleshooting tools.
  - Preparation of daily & monthly generation reports.
- Water Side:
  - MSF Desalination Plant:
    - ❖ Start-up and shutdown of MSF Desalination plant in proper way.
    - ❖ Operating and monitoring MSF Desalination plant and its performance parameters.
    - ❖ Taking appropriate action to correct deviations from established standards to ensure continuity of operations and provision of water production in a safe and reliable manner according to water demands.
  - RO Plant:

- ❖ Record all R O plant data and maintained Plant Normalized data and lab analysis.
- ❖ Monitoring and supervision chemical preparations, dosages for the Pre- and Post treatment in addition to Plant chemical cleaning preservation.
- ❖ Monitoring and supervision the Sea Water Reverse Osmosis (SWRO) operation and maintenance.
- ❖ Coordinate between maintenance and operations to ensure that Preventive Maintenance (PM) of equipment which is performed according to schedule.
- ❖ Monitoring and supervision consumptions, stock inventory and chemical procurement.
- ❖ Monitoring and supervision process parameters such as pH, Total Dissolved Solids, Conductivities, Pressures, Oxidation Reduction Potential, and Temperature, Flow rates, Recovery and Product water stock levels.
- ❖ Prepare and review the membrane chemical cleaning schedules and its chemical preparations, monitoring and neutralization before disposal
- ❖ Assist or lead in the disinfection process if necessary based on microbiological results.
- ❖ Conduct comprehensive analysis of all treatment processes. Interpret laboratory data as needed.

Dates : From Jan. 2014 till Jan. 2018
Employer : Middle Delta Electricity Production Company
Project : New Talkha Combined Cycle Power Plant 750MW
Job title : Shift Charge Engineer
Job Description :

- Operation of (2x250MW) SIEMENS V94.3A gas turbine - Teleperm XP control system and associated auxiliary through DCS.
- Operation of two CMI Heat Recovery Steam Generators through OV010 _ WIN Ovation windows system.
- Operation of ALSTOM (250MW) DKYZZ3-2N41C steam turbine.
- Monitoring the operation of a power generating unit to ensure reliable and efficient power generation.
- Performing the unit start-ups and shutdowns per assigned targets.
- Supervisory duties require supervision, training, and directions to field operators in performing their jobs.
- Troubleshooting, effective response to emergency conditions and compliance to safety procedures.
- Diagnose and resolve day-to-day operational problems.
- Raising defects for equipment & doing isolation and de-isolation procedures according to the work permit.
- Perform high/medium voltage switching operations.
- Handling plant firefighting.
- Operate through DCS based consoles in line with company's Standard Operating Procedures.

Dates : From Jun. 2013 till Jan. 2014
Employer : Middle Delta Electricity Production Company

Project : New Talkha Combined Cycle Power Plant 750MW
Job Description : Control Room operating & monitoring ALSTOM steam turbine through DCS.

Dates : From Feb. 2013 till Jun. 2013
Employer : Middle Delta Electricity Production Company
Project : New Talkha Combined Cycle Power Plant 750MW
Job Description : Control Room operating & monitoring two CMI HRSG (360 T/H) through OV010 _ WIN Ovation windows system.

Dates : From Mar. 2012 till Feb. 2013
Employer : Middle Delta Electricity Production Company
Project : New Talkha Combined Cycle Power Plant 750MW
Job Description : Local operating & monitoring Alstom steam turbine and associated Auxiliary systems such as:

- Circulating water system.
- Condensate water system.
- Vacuum system.
- Gland steam system.
- Lube Oil & Hydraulic system.
- Water Box system.

Dates : From Sep. 2011 till Mar. 2012
Employer : Middle Delta Electricity Production Company
Project : New Talkha Combined Cycle Power Plant 750MW
Job Description : Local operating & monitoring two CMI HRSG (360 T/H), Auxiliary and Pipe Rack, which including:

- LP, IP, HP Circuits.
- HRSG Conservation with N2.
- Hp Bypass & Ip Bypass.
- Dearator Tank.
- Blow-Down system.
- HP/IP and LP FW pumps.
- Preheater Recirculating pumps.
- MCC.

Dates : From Oct. 2010 till Sep. 2011
Employer : Middle Delta Electricity Production Company
Project : New Talkha Combined Cycle Power Plant 750MW
Job Description : Control Room operating & monitoring Two Gas turbines SIEMENS V94.3A and associated Auxiliary systems using OM650.

Dates : From Jul. 2009 till Oct. 2010
Employer : Middle Delta Electricity Production Company
Project : New Talkha Combined Cycle Power Plant 750MW
Job Description : Local operating & monitoring Two Gas turbines SIEMENS V94.3A and associated Auxiliary systems such as:

- Air Intake System.

- Lube Oil System.
- Closed Cooling Water System.
- Hydraulic Oil System.
- Pneumatic System.
- Fuel Oil System.
- Fuel Gas System.
- Demi-Water System.
- Denox Water System.
- Diverter Damper System.
- Generator & SFC.
- HV & MV System.

Further experiences :

- Working on distribution of lighting in modern buildings project back in college as an additional project to satisfy my potential.
- Attending and observing the test schedules of almost all of the electrical equipments.
- Responsible for the inspection of some of the electrical equipments in the power plant.
- Monitoring the electrical equipments under test and confirm their safe operation.
- Ability to read the wiring and installation drawings of most of the electrical equipments of the power plant.
- Familiar with Most of mechanical & electrical equipments.