101290-ELE-1OS-E-2008
Operation Engineer

Holds a B. Sc. in Electrical Power & Machines Engineering and has about 9 years hands-on experience, including 8 years working in operation and start-up at Damietta Combined Cycle Power Plant.

PERSONAL DATA

Nationality	:	Egyptian
Birth Date	:	21/08/1985
Gender	:	Male
Marital Status	:	Married
Residence	:	Damietta

EDUCATION

: B. Sc. in Electrical Power & Machines Engineering, Mansoura University, 2008

LANGUAGES

Arabic	:	Native Language
English	:	Very Good

COMPUTER SKILLS

: Windows, MS Office, Internet

TRAINING COURSES AND CERTIFICATIONS

: Training Course in Siemens SGT5 (V94.2) Operation, Certified from EDEPC (East Delta Electricity Production Company).
: Training Course in AEG (GIS) 220KV switchgear.
: Training Course in GEC ALSTHOM (Steam Turbine & Auxiliaries) Operation, Certified from EDEPC (East Delta Electricity Production Company).

CHRONOLOGICAL EXPERIENCE RECORD

Dates : From Sep. 2009 till now
Employer : East Delta Electricity Production Company
Project : Damietta Combined Cycle Power Plant:
Three Modules, each Module has:

- Two Siemens gas turbines (135MW Type V94.2).
- One Alstom HRSG (70 bar, 500 °C, 500 T/ hr).
- 220KV switch yard.

- 6.3KV switch yard.
- Two transformers 10.5/220KV, one 11.5/220KV.
- Six outgoing circuits 220KV.
- Two outgoing circuits 66KV.
- Medium and low switch gears.

Job title : Operation Engineer

Job Description :

- First Shift Engineer.
- Central Control Room Operator Engineer, Damietta Combined Cycle module III (1730MW) (6 gas turbines Siemens (94.2) & 6 HRSG and 3 steam turbines ALSTOM).
- Operating & Monitoring Steam Turbine (GEC ALSTHOM) Combined Cycle:
  - High pressure (65 bar) & low pressure (5 bar) steam turbine driving elect. Generator 11.5KV, 140MW.
  - Power transformer 11.5KV / 220KV, 152 MVA.
  - Operate through DCS based consoles in line with company's Standard operating procedures.
  - Performing the unit start up and shutdowns per assigned target trouble shooting, effective response to emergency conditions.
  - Monitor the operation of a power generating unit to ensure Reliable and efficient generation.
  - Compliance to safety procedures.
  - Monitor the condensate system, condenser, gland steam system, vacuum and water box vacuum system, control oil system, lube oil system, bypass system, circulating water system, UBS and rectification system, high pressure feed water and steam flow system, the damper system and all HRSG components.
- Operating & Monitoring auxiliary equipment of power plant: Operating and monitoring through DCS Emergency Diesel, Air Compressors, Fuel Separator, Fire Fighting System, Central Air Condition, Screen Wash System, Service Water System, Closed Cooling System Water Intake.
- Operating & Monitoring Gas Turbine (SIEMENS SGT5-2000E (V94.2)):
  - Two units of gas turbine v94.2 each one of them drive elect. generator TLRI 135MW, 10.5KV.
  - Two power transformers each one 10.5KV / 220KV, 152 MVA.
  - Two power transformers 10.5KV / 6.3KV, 8.7 MVA.
  - Four units of air compressors.
  - Performing the units start-ups and shutdowns per assigned target trouble shooting, effective response to emergency conditions.
  - Monitor the operation of a power generating unit to ensure reliable and efficient generation.
  - Compliance to safety procedures.
- Operating & Monitoring (GIS) 220KV switchgear (1.5) C.B. Arrangement:
  - Operating & Monitoring:
    - Switch yard contain connections of (9 Generators, 6 Transmission lines & 4 Power Transformer).
    - Control panels for these connections.
    - Protection systems of Transmission Lines & Transformers.
  - Carry out the maneuvering of connect and disconnect: 9 Generators, 6 Transmission lines & 4 Power Transformers.
  - Monitor:
    - Protection systems of Transmission lines.

- Isolation system of connections.
- Carry out safety isolation and precautions.

Dates : From Sep. 2008 till Jul. 2009
Employer : Nebro Masr PLASTIC COMPANY
Job Description : I was sharing with the electrical maintenance team.

Skills:

- Some knowledge about DC converters & soft starters.
- Good knowledge about SFC systems.
- Some knowledge about instrumentation systems.
- Good knowledge about medium & low tension cabins, switch gears & transformers.
- Good knowledge about synchronous generators that driven by each steam or gas turbines and diesel engines.
- Training of new coming engineers.