102513-ELE-O-E-2007
Electrical Operation Engineer

Holds a B. Sc. in Electrical Power & Machines Engineering and has about 6 years hands-on experience in operation of Damietta Power Plant.

PERSONAL DATA

Nationality	:	Egyptian
Birth Date	:	26/09/1983
Gender	:	Male
Marital Status	:	Married
Residence	:	Damietta

EDUCATION

: B. Sc. in Electrical Power & Machines Engineering, Suez Canal University, 2007

LANGUAGES

Arabic	:	Native Language
English	:	Good

COMPUTER SKILLS

: Windows, MS Office, Internet

TRAINING COURSES AND CERTIFICATIONS

: Training course in gas turbine Siemens (V94.2), certified from EDEPC.
: Training course in Steam Turbine ALSTHOM (certified from EDEPC).

CHRONOLOGICAL EXPERIENCE RECORD

Dates : From Apr. 2008 till now
Employer : East Delta Electricity Production Company
Project : Damietta Power Plant
Job Description :

- First Shift Engineer:
  - Leading staff consist of 20 Engineers and 10 Technicians
  - Providing report on system performance.
  - Report all plant upset conditions during Shift Engineers.
  - Direct assistant plant operator in troubleshooting and corrective measures when necessary.
  - Take the order to shut down or trip if there is any problem which effected on the units safety.

- Organize the engineers and technicians training courses.
- Make sure of the plant safety.

- Operating & Monitoring steam Turbine (GEC ALSTHOM 140MW):
  - Operating & controlling equipment's through Emerson Ovation DCS.
  - Daily inspection of the unit measurements (temperatures, pressures, flow rates and condenser level).
  - Carry out start-up, normal operation and shutdown of Steam Turbine.
  - Operation and monitoring of condensate water, control oil, lube oil system and lifting oil.
  - Operation and monitoring (HSU) Hydraulic Supply Unite.
  - Analysis any disturbance on the operation of Steam Turbine.
  - Analysis all measurements (temperatures, pressures, flow rates steam) to monitoring the efficiency of Steam Turbine.
  - Protection the turbine during trips.
- Operating & Monitoring 2 HRSG (250T/H, 65BAR) (BORSIG):
  - Daily inspection of the unit measurements (temperatures, pressures, flow rates, drum and deaerator levels).
  - Operating & controlling equipment's through Emerson Ovation DCS.
  - Carry out Complete Start-up, normal operation and shutdown of the HRSG.
  - Operation and inspection of high pressure feed water pumps 250T/H, 100bar, 950KW, 6.3KV.
- Operating & monitoring Steam Turbine Auxiliaries:
  - Instruments & service air compressors (2 stages, 9 bars, with dryer).
  - Diesel generators (2.4 M.W., 6.3 Caterpillar).
  - Intake & water pump house and its D.C.S. control.
  - Closed cooling water, service water & circulate water.
  - Conditioning system (chiller).
  - Fire fighting system (water & carbon dioxide).
- Operating & monitoring 2 Gas Turbine (SIEMENS SGT5-2000E (V94.2)):
  - Operation and monitoring performance of SIEMENS SGT5-2000E (V94.2) single shaft single casing – twin vertical combustion chambers – 135MW base load unit gas turbine.
  - Carry out starting, normal operation, shut-down and stand still.
  - Troubleshooting analysis.
  - Analyze gas turbine faults and upsets, investigate and recommend solutions.
  - Monitoring all readings of pressure, temperature, flow rate, vibration, valve position, liquid levels and power generated.
  - Taking all steps to restore the normal operating condition in case of readings change due to causes not associated with the mode of operation.
  - Checking all auxiliary equipments and devices (auxiliary power supply, lubrication, control oil system, fuel oil system, fuel gas system and ignition gas system.
- Operating & monitoring 220KV, 66KV, 6.3KV (A.C.) & 220V, 48V. (D.C.) switchgears:
  - Control of circuit breakers and isolators for the generators, transmission lines and powers Transformer.
  - Monitoring of pressure of the air and pressure the SF6 for circuit breaker and isolators.
  - Monitoring status operation and alarms on the protection systems of Transmission Lines & Transformers.

- Monitoring status of the chargers and batteries.
- Follow up status operation of PLC (Power line carriers).