101162-ELE-MO-E-2006
Operation & Maintenance Engineer

Holds a B. Sc. in Electrical Power & Machines Engineering and has over 6 years hands-on experience, mainly in operation and maintenance.

PERSONAL DATA

Nationality	:	Egyptian
Birth Date	:	06/04/1983
Marital Status	:	Single

EDUCATION

: B. Sc. in Electrical Power & Machines Engineering, Tanta University, 2006

LANGUAGES

Arabic	:	Native Language
English	:	Very Good

COMPUTER SKILLS

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

TRAINING COURSES AND CERTIFICATIONS

: On-shore training of Combined Cycle (Gas turbine, HRSG and steam turbine) by simulator system, Nubaria.
: On-shore training of gas turbine Siemens v94.3A each one produces 250MW, Nubaria.
: On-shore training of steam turbine operation and maintenance by Mitsubishi Heavy Industries Company, Nubaria.
: On-shore training of ALSTOM HRSG, Nubaria.
: On-shore training of GE gas turbine (250MW) operation, Nubaria.
: On-shore training of ALSTOM steam turbine, Nubaria.
: On-shore training of high and medium voltage (500KV/220KV/6.3KV), Nubaria.
: Operation on-shore training of Alspa p320 Distributed Control System (DCS) by ALSTOM Company, Nubaria.
: Training on fire fighting, civil safety and rescue course, Ministry of Interior Affairs, Damanhour.

CHRONOLOGICAL EXPERIENCE RECORD

Dates : From Feb. 2008 till now
Employer : Middle Delta Electricity Production Company (MDEPC)
Project : Nubaria Combined Cycle (3x750MW) Power Station
Job title : Operation & Maintenance Engineer of switchyard 500KV & 220KV
Job Description :

- Operation and maintenance of Conventional Air Insulated Switchyard (AIS) Sumitomo Corporation CONISYS (Tokyo & Cairo) 500KV, ABB Corporation (Cairo) 220KV.
- Operation and maintenance for switchyard equipments such as transformers, isolators, circuit breaker, insulators, surge arrestors.
- Operation and maintenance for switchyard control room.
- Energizing of transformers while commissioning.
- Isolating and connecting switchyard equipments such as transformers, bus bars and over head transmission lines (OHTL).
- Operation and maintenance for switchyard (LLIW) system.
- Follow and deal with protective alarms in control room.
- Follow the status of all equipments with the national electricity control center.

Dates : From Oct. 2006 till Feb. 2008
Employer : North Bharia Petroleum Company
Job title : Operation, Maintenance & Quality Engineer
Job Description :

- Operation and maintenance of diesel generator (cat-type), distribution transformers.
- Operation and maintenance of fire fighting system for oil tanks.
- Construction of earthling system in the field.
- Operation and maintenance of all electrical equipment in separator station (heaters, separators and pumps).

Field of experience :

- 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).
  - 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 transformer.
    - 2 Outgoing feeders from 500KV Bus-bar to Cairo and Sidi Krir 500KV.
  - 220KV Conventional Air Insulated Switchyard:
    - 4 Incoming feeders to bus bar 220KV.
    - 8 Outgoing feeders from bus bar 220KV.
    - 220KV Bus-Coupler.
  - Live Line Insulator Washing System (LLIWS).
- Witness for all tests in switchyard 500KV/220KV, switchgears 16.5/6.3KV (C.B, C.T, P.T, etc.) some tests (Polarity, Megger, Turns ratio).
- Witness for all tests on Power Transformers (D.C resistance, insulation Test, turns ratio, Tan δ).

- Witness for some tests on some Relays Low Voltage switchgear (6.3KV/400V).
- Switchyard 500KV consists of:
  - 9 Power transformers (ZTR & Hyundai).
  - 4 TFRs ZTR of CTG Turbines 16.5KV/500KV & 2TFRs ZTR of STG Turbine 15KV/500KV.
  - 2 TFRs Hyundai of CTG Turbines 15.75KV/500KV & TFR Hyundai of STG Turbine 19KV/500KV.
  - 2 Busbars 500KV, 3000 A (Double Busbar Double Breaker).
  - 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.
- Switchyard 220KV consists of:
  - 2 Bus bars 220KV, 3000 A (Double Busbar 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.
  - 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 Busbar protection.
      - P437, P442 for Distance protection.
      - P143 for Breaker Fail.
      - P126 for Backup protection.
      - P632 for differential protection.
    - ABB Protection relays as follows:
      - REB 500 for busbar protection.
      - Rel 316, Rel 531 for distance protection.
      - Auto recloser system.
    - CONISYS live line scada control unit.
    - CONISYS & ABB Chargers, Rectifiers, Batteries and Inverters 400V AC>> 220, 48V DC room (UPS system).