

Holds a B. Sc. in Electrical Power & Machines Engineering and has about 5 years hands-on experience in protection and maintenance of Mahmoudia Power Station.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 01/10/1983
Gender : Male
Marital Status : Married
Residence : El-Behira

EDUCATION

: B. Sc. in Electrical Power & Machines Engineering, Tanta University, 2005

LANGUAGES

Arabic : Native Language
English : Good

COMPUTER SKILLS

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

TRAINING COURSES AND CERTIFICATIONS

: Training course on Steam Turbine, Generator & Condenser, Egyptian Electricity Holding Co., El-Atf Power Station, ANSALDO Training School, Jan./Feb. 2009.

CHRONOLOGICAL EXPERIENCE RECORD

Dates : From Mar. 2007 till now
Employer : Egyptian Electricity Holding Co.
Project : Mahmoudia Power Station:

- General Electric Gas Turbine (Frame 5), 8 sets – 25MW each one.
- 220/66/11KV Transformers substations.
- 11/220KV Set Up Transformers (6 Nos.).
- 220KV Switchyard (Sf6 circuit breakers, Isolators, Current Transformer, Voltage Transformer, wave Trap, Surge arrestors, etc.).

Job title : Protection & Electrical Maintenance Engineer

- Job Description** : • Practical experience:
- Check and adjust setting if necessary all protection relays for A.C. Generators, main transformers, Feeders, etc. (e.g. differential protection – over current – over voltage – earth fault – negative phase sequence – reverse power – distance relay – field failure – bochholz relay – winding temperature – field ground detector, etc.).
 - Check all closing and tripping circuits for CBs with different voltages (11 – 66 – 220KV).
 - Current Transformers Checks (turns ratio – saturation curve – insulation test – Polarity test – etc.).
 - Voltage transformers check (turns ratio – insulation test – back to back – etc.).
 - CBs (with different voltage 220 – 66 – 11 – 6KV – etc.) checks "Closing & Tripping time – Contact Resistance – SF6 Dew point test – SF6 Chemical Analyzing test".
 - Carrying out all main transformer winding tests (Tan delta – D.C. resistance – insulation test – turns ratio – oil high voltage test).
 - Measuring leakage current for lightning arrestors and compare with standard values.
 - Measuring earth resistance for switchyard zones.
 - Check all interlocking circuits.
- Use the following instruments:
- Primary Injection.
 - Secondary Injection.
 - Phase Shifter.
 - Insulation resistance tester.
 - AVO meter.
 - Clamp meter.
- Electrical maintenance work:
- Carrying out maintenance for 11KV A.C. generators (e.g. Winding insulation resistance test – Winding cleaning – Heater circuits – Ventilating system maintenance – etc.).
 - Carrying out maintenance for 11KV CBs. and test close and trip circuits for CB.
 - Check D.C. circuits and carrying out general maintenance for batteries (adjust electrolyte level specific gravity – check voltage / cell – check battery charger circuits – etc.).
 - Check and calibrate excitation system (with brushes – brush less) – (AVR system – rotating diodes – etc.).
 - Check and calibrate synchronizing system.
 - Carrying out maintenance for electrical motors and check their power and control circuits.
 - Carrying out maintenance for aux-transformers 11000/415V (Turns ratio test – oil test – change silica gel – Insulation resistance test – etc.).
 - Design CBs interlock control circuits.