

Holds a B. Sc. in Electrical Power Engineering and has about 13 years experience, working mainly in operation, testing, start-up, maintenance and protection at Power Plants.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 08/05/1977
Gender : Male
Marital Status : Married
Residence : El-Behira

EDUCATION

: B. Sc. in Electrical Power Engineering, Alexandria University, 2001

LANGUAGES

Arabic : Native Language
English : Excellent

COMPUTER SKILLS

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

TRAINING COURSES AND CERTIFICATIONS

- : Operating and maintenance of Mitsubishi gas turbine frame M701F – 250MW, MHI, Takasago City – Japan.
- : Electric generator 290 MVA, MHI, Kobe City – Japan.
- : SIEMENS:
 - On-shore protection system in 220KV GIS substation.
 - Siemens switchgear type 8DN9-2.
 - Functionality of C.B.
 - Interlocking system.
 - SF6 handling.
 - Partial discharge in gas insulated.
 - Manual operation of Disconnecter & Earthing switch.
 - Handling of the SF6 maintenance machine DILO compact.
- : TOSHIBA: On-shore Transformer protection.
- : SCHNEIDER:
 - M.V. Primary distribution Equipment Knowledge & Use.
 - L.V. Switchboards.

- : NEM: HRSG operation & maintenances.
- : AREVA: Power transformer training.

CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From 2008 till now
- Employer** : Middle Delta Electricity Production Company (MDEPC)
- Project** : El-Atf Power Plant 750MW:
- 2x250MW gas turbine by Mitsubishi (Frame M701F - Diasys control).
 - 1x250MW steam turbine by Ansaldo Energia.
 - 2 HRSGs by NEM.
 - GIS 220KV switchyard one and half circuit breaker, consist of two Bus bar, five bays, 6 overhead transmission lines and 3 generator transformers.
 - 6.6KV Switchgear by Schneider.
 - Two 21/220KV Set-up Transformers and one 15.75/220KV Set-up Transformer.
 - Two auxiliary transformers (21/6.3KV) by Areva.
- Job title** : Electrical Engineer
- Job Description** : Protection duties:
- Check and adjust setting if necessary all Digital Protection Relays for AC Generators – Main Transformers – Feeder E.G. (Differential Protection – Over Current – Over Voltage – Earth Fault – Negative Phase Sequence – Reverse Power – Distance Relay – Field Failure – etc.).
 - Check all closing and tripping circuits for C. BS & apply test closing time, opening time and contact resistance of different voltages CBs (6-11-66-220KV).
- Testing of:
- Local protection devices of transformers (winding temp, oil temp, pressure relieve valves, sudden pressure device, BOCHHOLZ Relay).
 - Using Omicron 356 for testing of digital multifunction protection relays such as:
 - M3425, M3310 of gas turbine.
 - Micom, P345, P141 of Steam turbine.
 - Siemens 7UT6131, 7SJS111 (SPRITEC 4).
 - Sepam Series 20, 40, 80 of 6KV Switchgear.
- Maintenance works:
- Major inspection and maintenance for 21KV A.C. Generators, M.H.I. (Insulation Resistance Test – Winding Cleaning – Hydrogen System – etc.).
 - Major inspection and maintenance for 15.7KV A.C. Generators, ANSALDO (Insulation Resistance Test – Winding Cleaning – Hydrogen System – etc.).
 - Major inspection and maintenance for 220KV & 66KV & 11KV CBs and Test Close and Trip Circuits for CBs & maintenance of 220, 66, 11, 6.6, 380 Switchgear.
 - Check C.T.S & P.T.S (Turns Ratio – Back To Back Test – etc.).
 - Check D.C. Circuits and carrying out general maintenance for batteries (adjust electrolyte level specific gravity – check voltage / Cell – internal resistance, etc.).

- Check Battery Charger Circuits.
- 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.
- Maintenance for transformers 11/220KV & 220/66/11KV (Turns Ratio Test – Oil Test).
- Change Silica Gel – Insulation Resistance Test – Dc Resistance – Tan Delta – etc.
- Design CBs Interlock Control Circuits.

Installation, erection & commissioning of:

- Gas Turbine Generator 250MW (Mitsubishi Electric Corporation) & Digital Generator Protection Relay M-3425, M-3310 for Excitation Transformer.
- 220KV GIS SIEMENS & Digital Protection Relay (SPERITEC-4) & 220KV Cable between Main Transformer and 220KV GIS.
- Main Transformers 21/220KV and Auxiliary Transformers 21/6.3KV (AREVA).
- Medium Voltage Switchgear 6.3KV (SCHNEIDER, RENOX) & Digital Protection Relay (SEPAM 1000).
- Medium & LV Motor (EPARA- JAPAN).
- Testing for Digital Relay by using OMICRON CMC356.

Using the following instruments:

- OMICRON CMC 356 – Primary Injection – Secondary Injection.
- CPM 500 (megger) digital micrometers for Contact resistance.
- TM 1600 circuit breaker analyzer (opening time –closing time).
- C.A. 6423 CHAUVIN ARNOUX for Ground resistance.
- BITE2 (megger) for Internal impedance of battery.
- MULTI-RANGE MEGGER TESTER for Insulation resistance.
- R002 (DILO) Measuring Device for SF6 percentage.
- R001 (DILO) Moisture Meter for SF6 gas.
- PAUR oil tester DPA for measuring brake dawn voltage of oil.

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| Dates | : | From 2003 till 2008 |
| Employer | : | Middle Delta Electricity Production Company (MDEPC) |
| Project | : | EI-Mahmoudia Power Station 300MW: <ul style="list-style-type: none"> • 8x25MW gas turbine by GE (Frame 5), 2x50MW steam turbine by GE, 8 HRSGs by NEM. • 220/66/11KV Transformers substations. • 11/220KV Set-up Transformers. • 11/6KV Transformers. • Feeder 220KV (6 sets) and feeder 66KV. • 220KV Switchyard. • 6.6KV Switchgear (Sf6 circuit breakers). • Infi 99 DCS by ABB, Mark II and Mark V by GE. |
| Job title | : | Operation Shift Leader Engineer |
| Job Description | : | <ul style="list-style-type: none"> • Unit start-up and shutdown procedures. • Monitoring parameters. • Testing the equipments. |

- Isolation and de-isolation procedures.
- Safety work permit system.
- Condensate system & condensate pumps.
- Circulating water system & circulation pumps.
- Feed water system & pumps.
- Sump pumps.

Dates : From 2001 till 2003

Employer : El-Borak Company

Job Description :

- Installation and maintenance of ventilation system.
- Finishing Military Service.