

Holds a B. Sc. and a post graduated Diploma in Electrical Power & Machines Engineering. Has about 15 years hands-on experience, mainly in maintenance and protection of Power Plants.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 05/03/1975
Gender : Male
Marital Status : Married
Residence : Currently Dubai (UAE)

EDUCATION

: B. Sc. in Electrical Power & Machines Engineering, Tanta University, 1998
: Diploma of Electrical Power Engineering, Alexandria University, 2003

LANGUAGES

Arabic : Native Language
English : Excellent

COMPUTER SKILLS

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

TRAINING COURSES AND CERTIFICATIONS

: Off-shore training on maintenance of gas turbine 350 MVA in Mitsubishi factory in Takasago City – Japan, May/Jun. 2008.
: Off-shore training on maintenance of generator 350 MVA in MELECO factory in 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.

: On-shore Transformer protection, Toshiba.

- : Training in ORMER, Generator CB by Areva.
- : Training in Maintenance of MV switchgear, LV switchgear, Protection Sepam by Scheider.
- : Training course on Protection feeders.
- : Training course in Programmable Logic Control (PLC).
- : Computer application from ITI.

CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From 2013 till now
- Employer** : DEWA (Dubai, UAE)
- Project** : JEBEL ALI POWER PLANT 1373MVA – Plant 2-1:
- 3 x 311 MVA GAS TURBINE GENERATOR BY GE (FRAME 9)
 - 2 x 220 MVA STEAM TURBINE GENERATOR
 - 3 HRSGS
 - 3 SETUP TRANSFORMER 15.75/420KV – 350 MV (TOSHIBA)
 - 2 SETUP TRANSFORMER 15.75/420KV – 235 MVA (TOSHIBA)
 - 6 AUX. TRANSFORMER 15.75/11KV – 60 MVA KV (TOSHIBA)
 - 22 STEP DOWN TRANSFORMER 11/.4 - 2.5 MVA (TOSHIBA)
 - 5 DIESEL UNITS TYPE (MTF)
 - 14 MV SWITCHGEAR 11KV - ABB
- JEBEL ALI POWER PLANT 1373MVA – Plant 2-2:
- 4 x 350 MVA GAS TURBINE GENERATOR BY SIEMENS
 - 2 x 350 MVA STEAM TURBINE GENERATOR ALSTOM
 - 3 HRSGS
 - 3 SETUP TRANSFORMER 15.75/420KV - 350MV
 - 2 SETUP TRANSFORMER 15.75/420KV - 235MVA
 - 6 AUX. TRANSFORMER 15.75/11KV - 60 MVA KV
 - 22 STEP DOWN TRANSFORMER 11/.4 - 2.5 MVA
 - 5 DIESEL UNITS TYPE (MTF)
 - 13 MV SWITCHGEAR 11KV - ABB
- Job title** : Electrical Maintenance Engineer
-
- Dates** : From Jul. 2007 till 2013
- Employer** : Middle Delta Electricity Production Co. (MDEPC)
- Project** : El-Atf Power Plant (750MW):
- 2x350 MVA gas turbine generator by Mitsubishi (Frame M701F - Diasys control)
 - 1x340 MVA steam turbine generator by Ansaldo Energia
 - 2 HRSGs by NEM
 - GIS 220KV switchyard one and half circuit breaker, consist of two Bus bar, five bays
 - 6 over head transmission lines and 3 generator transformers
 - 6.6KV Switchgear by Schneider
 - Two (21/220KV, 300 MVA Set Up Transformers) and one (15.75/220KV, 340 MVA Set Up Transformer)
 - Two auxiliary transformers (21/6.3KV, 3) by Areva
- Job title** : Senior Electrical Maintenance Engineer

Dates : From Mar. 2000 till Jul. 2007
Employer : Middle Delta Electricity Production Co. (MDEPC)
Project : Mahmoudia Combined Cycle Power Plant (300MW):

- 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 : Electrical Maintenance Engineer

Dates : From 1999 till Feb. 2000
Employer : CIMI MONTUBI
Project : Ayoun Moussa Power Plant
Job title : Electrical Engineer
Job Description : Installation, testing and commissioning.

Field of experience :

- Protection duties:
 - Check and adjust setting if necessary of 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 relive valves - sudden pressure device - BOCHHOLZ Relay).
 - Using Omicron 356 for testing of digital multifunction protection relays as:
 - M3425A, M3310A of gas turbine.
 - Micom, P345, P141 of Steam turbine.
 - Siemens 7UT6131, 7SJS111, 7SA612, 7SD522 "SPRITEC 4".
 - Sepam Series 20, 40, 80 of 6KV Switchgear.
- Electrical Maintenance work:
 - 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.).
 - Check C.T.S & P. T.S (Turns Ratio – Back To Back Test, etc.).
 - Check Battery Charger Circuits.
 - Check and calibrate Excitation System (with Brushes – Brush Less) – (AVR System – Rotating Diodes, etc.).

- MAJOR INSPECTION Maintenance for 220KV & 66KV & 11KV C. Bs. and Test Close and Trip Circuits for C.Bs & Maintenance of 220, 66, 11, 6.6, .380 Switchgear.
- Check D.C. Circuits and carrying out General Maintenance for Batteries (adjust Electrolyte Level Specific Gravity – Check Voltage / Cell – internal resistance, 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.
- Design C.Bs Interlock Control Circuits.
- Installation, erection and commissioning of:
 - Gas Turbine Generator 250MW (Mitsubishi Electric Corporation) & Digital Generator Protection Relay M-3425, M-3310 for Excitation Transformer.
 - 220KV GIS SIEMENES & 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 & L.V. Motor (EPARA- JAPAN).
 - Testing for Digital Relay by using (OMICRON CMC356).
- Using instruments:
 - OMICRON CMC 356 – Primary Injection – Secondary Injection.
 - CPM 500 (megger) digital micro-meter 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.
 - Winding Resistance tester.
 - Tan Delta tester type OMICRON (CPC100+TD1).