

Holds a B. Sc. in Electrical Power Engineering and has about 16 years hands-on experience working in construction, operation, maintenance, commissioning, start-up and protection.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 01/10/1978
Gender : Male
Marital Status : Married
Residence : Mahmoudia

EDUCATION

: B. Sc. in Electrical Power Engineering, Tanta University, 2003

LANGUAGES

Arabic : Native Language
English : Excellent

COMPUTER SKILLS

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

TRAINING COURSES AND CERTIFICATIONS

- : Operating and maintenance of gas turbine frame M701F – 750MW at Takasago City – MHI – Japan.
- : Electric generator 290 MVA at Kobe City – MHI – 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 Company of Electricity Production
- Project** : EL-ATF Combined Cycle Power Station
(Installation of Mitsubishi Gas turbine units – Frame M701F):
- 2x250MW gas turbines by Mitsubishi (Frame M701F - Diasys control).
 - 1x250MW steam turbines by Ansaldo Energia.
 - GIS 220KV switchyard one and half circuit breaker, consists of two bus bar, five bays, 6 over head transmission lines and 3 generator transformers.
 - Two 21 / 220KV Step Up Transformers and one 15.75 / 220KV Step Up Transformer.
 - Two auxiliary transformers (21/6.3KV) by Areva.
 - 2 HRSGs by NEM.
 - 6.3KV Switchgear by Schneider.
- Job title** : Electrical Engineer
- Job Description** :
- Consultant duties:
 - Responsible for supervising technical specification and Supervise the contract package schedule and related financial, technical specifications for Approving designs & submittals from vendors and check the Suitability of the submitted specifications to the required contracted Specifications, which also includes assigning the incompatible specifications and making additional implementations if necessary.
 - Attend daily activity progress meetings and make sure that site activities are in line with project schedule.
 - Coordinate all electrical activities (electrical Equipment installation) with other departments such as Civil, I&C and mechanical.
 - Approving designs & submittals, site acceptance tests, commissioning & start-up and spare parts amount optimization regarding to cost of each spare parts, regarding to operation and maintenance manual.
 - Prepare & apply punch Items list and manage with project time progress for successful start-up.
 - 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 CBs & 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.).
 - MAJOR INSPECTION maintenance for 220KV & 66KV & 11KV CBs. and Test Close and Trip Circuits for CBs & maintenance of 220, 66, 11, 6.6, .380 Switchgear.
 - Check CTs & PTs (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.
 - Design CBs 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 SIEMENS & Digital Protection Relay (SPERITEC-4) & 220KV cable between Main Transformer and 220KV G.I.S.
 - MAIN transformer 21/220KV and auxiliary transformer 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 the following instruments:
 - OMICRON CMC 356-Primary Injection – Secondary Injection.
 - CPM 500 (megger) digital micrometer 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.
- CPC 100 multi function tester.
- C.T. analyzer.
- TTR 330 transformer turns ratio.

Dates : From Jun. 2013 till Mar. 2014
Project : Qurayyah Independent Power Plant 4000MW (KSA)
Job Description :

- Performed high voltage test for 13.8KV & 4.16KV BUS BAR.
- Performed all tests for L.V. C.B 400V.
- Performed all tests for medium voltage C.B (4.16KV & 13.8KV).
- Worked as a Protection Engineer and tested SIEMENS protection relay kind 7sj621, 7sj622, 7sj624, 7um.
- Attended T.R test (18KV-380KV & 13.8KV-4.16KV).

Dates : From 2003 till 2008
Project : Mahmoudia Combined Cycle Power Station (300MW):

- 8x25MW gas turbine by GE (Frame 5), 2x50MW steam turbine by GE, 8 HRSGs by NEM.
- 220/66/11KV Transformers substations.
- 11/220KV Step 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 :

- 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.