

Holds a B. Sc. in Electrical Power Engineering and has about 13 years hands-on experience working in maintenance, testing and protection.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 11/07/1978
Gender : Male
Marital Status : Married
Residence : El-Behira

EDUCATION

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

LANGUAGES

Arabic : Native Language
English : Fluent

COMPUTER SKILLS

: Windows, MS Office (Word, Excel, Power Point), Internet
: AutoCAD (2D – 3D)
: Matlab & Simulink
: Primavera
: Fortran 77, Assembly Language

TRAINING COURSES AND CERTIFICATIONS

: Training course in PLC, JELECOM - EGYPT Co., Aug./Sep. 2007
: One month on-job training by ALSTOM in Massy close to Paris (France), Jan./Feb. 2006:

- ALSPA P320 SYSTEM CL01-ES-S5-Centralog Operation & Maintenance "DCS Control".
- Alspa P320 Distributed Control System Product Operator and plant Driving Activities.

: One month on-job training by CONISYS in Nubaria Power Station, Jun./Jul. 2005:

- SF6 Single Pressure Gas Circuit Breaker.
- Disconnecting Switches.
- Distribution System AC/DC Charger.
- Surge Arrestor.

- Voltage Transformer.
- Current Transformer.
- Auto Transformer.
- : 50 hours training by WDEPC in Abu Qir Training Center, May/Jun. 2005:
 - Maintenance Combined Cycle.
 - Operating Combined Cycle.
- : Fire and fighting system (Chemtrol Proyectos Sistemas S.L.C., Madrid – Spain), Nubaria Power Station, Jun. 2006:
 - Operation and maintenance for fire and fighting system.
- : 96 hours GAS TURBINE operation and maintenance training program, Nubaria Power Station:
 - Maintenance of gas turbine stations (SIEMENS).
- : Site training from PETROJET Co., at MIDORE Co., Jul./Aug. 1999:
 - Construction for all electrical equipment.
- : Site training from PETROJET Co., at MIDORE Co., Jun./Jul. 2000:
 - Commissioning & start-up for electrical equipment.
- : Training course in Damanhour dealing with medium and low tension switchgears, also dealing with motor control centers (MCC) of the site (summer 2001).

CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Dec. 2012 till now
- Employer** : Middle Delta Electricity Production Company (MDEPC)
- Project** : Nubaria Power Station (3x750MW):
- 4 CTGs (SIEMENS), 2 CTGs (GE)
 - 2 STGs (MITSUBISHI), 1 STG (ALSTOM)
 - 500KV Double Bus bar Double Breaker switch yard (HITACHI) with MICOM protection Relays
 - 220KV Double Bus bar Single Breaker with Bus Coupler switch yard (ABB) with ABB Protection Relays
 - Two 500KV OHTL with MICOM Protection Relays
 - Eight 220KV OHTL with ABB Protection Relays
 - Four tie transformers 500/220/12KV with MICOM Protection Relays
- Job title** : Electrical Protection Engineer
- Job Description** :
- Performing all protection relays and electrical testing activities for Nubaria Power Plant and Specialist at SIEMENS projects.
 - Familiarity with electrical relays currently used in the electric power utility industry and experience with: application of relays and metering in an electrical substation at 220/500KV; performing fault analysis, relay coordination studies and relay settings and preparing and reviewing engineering and designs for MV & HV and EHV electrical substation projects; protection of high voltage substation equipment such as transformers, circuit breakers including metering. Also knowledge of AC/DC fundamentals; three phase power systems; per-unit mathematics and symmetrical components; understanding of substation components and their functions; design documents and drawings necessary to complete a projects; and engineering standards including NEC, IEEE, IEC and ANSI. Relay coordination experience is a plus. Witnessed many types of testing for all relays and devices which delivered by SIEMENS, ABB, ALSTOM, AREVA, GE Multilin and

(BECKWITH ELECTRIC) MITSUBISHI to Nubaria Power Station.

- Participating in Studying, Analyses, Test and Make Specification for Electrical Components in my branch's:
 - 500KV switchyard control center.
 - 220KV switchyard control center.
 - 6.3KV switchgear panels.
 - All tests on power transformers, CT's, VT's, C.B's, DS's, ES's and bus bar in (500KV, 220KV, 6.3KV and 0.4KV).
- In addition to follow commissioning tests and witnessed testing of HITACHI (500KV) and ABB (220KV) switch yards equipments.
- These Tests like:
 - Tie transformers, Auxiliaries and Main transformers commissioning tests (Tan δ test, insulation (megger) test, DC resistance).
 - Transformers mechanical protection relays tests (Buchhlez relay, pressure relief device, rapid pressure device).
 - CB's tests (Timing test, DC Contact resistance for 500KV CB'S, SF6 dew point, trip and alarm SF6 value[.
 - CT'S tests (insulation (megger), turns ratio, DC resistance, magnetizing curve, polarity).
 - VT's tests (turns ratio, insulation (megger) test).
 - Disconnecting switches tests (Contact resistance).
 - Earthing switches tests (Earthing resistance).
 - Battery impedance test.
 - Leakage current for surge arrestors.
- 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) from ZTR Ukrainian Company.
 - 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 transformers.
 - 2 Outgoing feeders from 500KV Bus-bar to Cairo 500 and Sidi Krir 500.
 - 220KV Conventional Air Insulated Switchyard:
 - 4 Incoming feeders 220KV.
 - 8 Outgoing feeders 220KV.
 - 220KV Bus-Coupler.
 - Live Line Insulator Washing System (LLIWS).
 - DC System (Chargers & Batteries).
- Corrective & preventive maintenance for the following:
 - Medium voltage 6.3KV switchgear with 4 incoming feeders.
 - 6.3/0.4KV dry transformers.
 - Motors control center MCC.
 - Low voltage induction motor.
 - Medium voltage induction motors.
 - Emergency diesel generators.
 - Power transformer.
 - UPS system and Battery Chargers.
 - Distribution Dc system.

Dates : From Jan. 2011 till Dec. 2012
Employer : KHARAFI NATIONAL Company
Project : AL-SHABAB Power Plant (8x125MW):

- Eight GE CTG units 125MW
- Four units SCHNEIDER 6.6KV medium voltage module
- Main substation SCHNEIDER 6.6KV and 0.4KV Load Center
- Two units SCHNEIDER Low voltage module
- SIEMENS GIS switchgear & GIS control
- Two CUMMINS Emergency diesel generators
- Eight Main Transformers HYUNDAI 16/220KV & Aux. Transformer 16/6.6KV
- Fire system for power plant

Job title : Electrical Commissioning & Maintenance Engineer
Job Description :

- Pre-commissioning and field inspection for all electrical equipment.
- Commissioning and start-up for all electrical equipment in power plants: LV/MV/DC switchgears and LV transformers including protection circuits and interlocks, AC/DC and DC/DC converters, DC/AC inverter, Batteries, Drives and feeders.
 - Inspection of LV/MV/DC systems for completeness and sufficient cleanliness during Turn-over package handover process.
 - Completion of commissioning documents and preparation of the associated commissioning documentation package, as well as issuing redlined documents for the AS-BUILT documentation and operating manual.
 - Trouble shooting LV/MV/DC problems within Clients scope of supply including interfaces to other scopes.
 - Handover of commissioned systems.
- Leading and coaching operational execution of remaining works on-time to diesel generator (commissioning and start-up).
- Preparing the electrical maintenance department with the maintenance programs for all equipment.
- Leader for the maintenance group work at the warranty period for the power plant.

Dates : From Oct. 2004 till Dec. 2010
Employer : Middle Delta Electricity Production Company (MDEPC)
Project : Nubaria Power Station (3x750MW)
Job title : Electrical Protection Engineer
Job Description :

- Supervise the preventive maintenance activities within the Protection Maintenance section. Prioritize the preventive maintenance related works and tasks based on the departmental priorities. Monitor all preventive maintenance activities and ensure quality output from the team. Provide regular report to the department head in terms of completed and pending works in Protection Maintenance (Planned) section. Identify the root cause and take immediate preventive measures while constantly evaluating & analyzing protection related equipment / system failures, abnormalities, shortcomings and irregularities, work practices, systems and processes & policies as per international standards in the areas related to maintenance. Coordinate with departments.

- Dealing with many types of measuring, primary and secondary injection sets of high technologies such as:
 - 6 phase secondary injection tester (Omicron CMC356).
 - 3 phase secondary injection tester (ISA - DRTS) Corporation.
 - 3 phase secondary injection manual tester (MANTA).
 - High voltage tester PGK_HB 50KV (AC), 70KV (DC).
 - Single phase secondary injection manual tester (SEVERKER 750).
 - Single phase secondary injection tester (ISA).
 - Contact resistance tester (CRD-100X2) (ADWEL).
 - Circuit breaker Analyzer (CT – 6500.) (VANGURD).
 - Earth resistance tester (C-A 6460.) (MEGGER DET).
 - Battery internal impedance (MEGGER BITE 2).
 - Multi Arrester clamp leaker (ALCL – 40).
 - Winding resistance test set (WRT-100) (ADWEL).
 - Capacitance & Dissipation factor test set. AVO international.
 - Automatic Capacitance & Tan Delta test set.
 - And another primary injection sets (ODEN – Programma) 3000A.
 - And many other test sets.

Further experiences :

- From Feb. 2017 till Apr. 2017:
 - Commissioning Engineer for static frequency converter (SFC) & Excitation system (ALSTOM / GE SIMIPOL D4) with MDEPC Company.
- From Oct. 2016 till Jan. 2017:
 - Team Leader for electrical commissioning with SIEMENS Company at Beni Suef Project 4800MW (4 x SCC5-8000H 2x1) for the first stage (simple cycle only):
 - Pre-commissioning and field inspection for all electrical equipment.
 - Commissioning and start-up for all electrical equipment in Power Plant.
 - Make the function tests for the generation SIEMENS protection devices such as: Generator multi functions (7UM622, 7UM621), transformers functions (7UT633) LV/MV/DC switchgears and LV transformers including protection circuits and interlocks, UPS system, Batteries, Drives and feeders.
 - Inspection of LV/MV/DC systems for completeness and sufficient cleanliness during Turn-over package handover process.
 - Make the electrical tests for IPB, HV transformers and SIEMENS dry transformers (for 11KV medium voltage, for SFC & SEE system and for low voltage switchgear).
 - Make the interface signals tests, function tests, interlocks scheme tests between (IPB, HV main transformers, protection panels, HV switchgear).
 - Completion of commissioning documents and preparation of the associated commissioning documentation package, as well as issuing redlined documents for the AS-BUILT documentation and operating manual.
 - Trouble shooting electrical systems problems within Clients scope of supply including interfaces to other scopes.
 - Handover of commissioned systems.

- From Jun. 2015 till Aug. 2015:
 - Senior Commissioning Engineer for interface signals test, function test, interlocks scheme test and start-up with Orascom Construction Company at West Damietta 4x125MW Project. Make commissioning and start-up for emergency diesel generator system.
- From Oct. 2013 till Dec. 2013:
 - Instructor for electrical courses with ISCOSA SIEMENS Company in Saudi Arabia.