

105249-ELE-12MPT-E-2008
Senior Electrical Protection Engineer

Holds a B. Sc. in Electrical Power & Machines Engineering and has about 9 years hands-on experience working in protection, testing and maintenance.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 12/10/1985
Gender : Male
Marital Status : Married
Residence : Currently KSA

EDUCATION

: B. Sc. in Electrical Power & Machines Engineering, Ain Shams University, 2008

LANGUAGES

Arabic : Native Language
English : Good

COMPUTER SKILLS

: Windows, MS Office (Word, Excel, Access, Power Point), Internet
: DIGSI (Siemens), MICOM (AREVA) & PCM 600 (ABB)

TRAINING COURSES AND CERTIFICATIONS

: Integrated Transformers & Generators Maintenance Courses (Electric Training Management – Ayoun Moussa Power Station).
: Theoretical & Application for AC Machines Courses (Electric Training Management – Ayoun Moussa Power Station).
: Integrated Boilers Maintenance Course (Electric Training Management – Ayoun Moussa Power Station).
: Industrial Safety (Electric Training Management – Ayoun Moussa Power Station).

CHRONOLOGICAL EXPERIENCE RECORD

Dates : From Mar. 2017 till now
Employer : SAUDI ELECTRICITY COMPANY, EHVPD-WOA
Projects : 380/110/13.8KV NEW AL-KHUZAM BSP and Interconnecting of 380/110KV KHALIDYA with 110KV Network

- Job title** : Senior Electrical Protection Engineer
- Dates** : From Jul. 2016 till Feb. 2017
- Employer** : KADI Trading & Contracting Co. Ltd.
- Projects** : 132/13.8KV TABUK#12 S/S, 132/33KV BIR BIN HERMAS S/S & 110/13.8KV AZIZA S/S
- Job title** : Technical Support Engineer
- Dates** : From Oct. 2013 till May 2016
- Employer** : SAUDI ELECTRICITY COMPANY, CSD DEPARTMENT
- Projects** : 380KV, 132KV and 110KV existing and new substations: 380KV Madinah Center S/S, 380KV Madinah Industrial City, 380KV AL SALAM S/S, 380KV Madinah East, 380KV HHR-5 S/S, 380KV HHR-6 S/S, 380KV Umlujj North S/S, 380KV Madain Saleh S/S, 380KV PS-2 S/S, 132KV AL Wajh S/S, 110KV Al Baydaa-2 S/S, 110KV Uhod S/S, 110KV Al Barakah S/S, 110KV Tiyyam-2 S/S, 110KV KEC-1, 110KV KEC-2, 110KV ICY Madinah, 110KV Khyber S/S, 110KV Al Baydaa-II S/S, 110KV MPS S/S, 110KV Yanbu North-2 S/S
- Dates** : From Aug. 2009 till Oct. 2013
- Employer** : Egyptian East Delta Electricity Production Company
- Project** : Ayoun Moussa Thermal Power Station Plant 2x320MW & 500KV and 220KV GIS
- Job title** : Electrical Testing & Protection Engineer
- Dates** : From Aug. 2008 till Aug. 2009
- Employer** : Ameron Egypt Factory for Concrete Cylinder Pipes
- Job title** : Electrical Maintenance Engineer
- Field of experience** :
- Manage all site work activities and coordinates with Subcontractors and NG Consultant.
 - Follow up with design team for required approved drawing at each stage.
 - Making safety inspections and ensuring construction and site safety.
 - Checking and preparing site reports, designs and drawings (RMI, RFI, ...etc.).
 - Liaising with client and reporting progress and daily work.
 - Make sure that the deadline for completing work is met, and share of the responsibility if someone one at site has an accident or problem.
 - Monitoring Site progress, oversee delivery of materials and carry out safety checks and sort out any problems which could hold up work as they arise.
 - Keep in close contact with members of site team at all times, and liaise with Project Manager, design team, engineers, supervisors and planners.
 - Ensure that work complies with SOW and PTS with all appendices as well as SEC Standard requirements.
 - 380KV AREVA GIS functions and operation commissioning check.
 - 380KV ABB GIS functions and operation commissioning check.
 - 110KV SIEMENS GIS functions and operation commissioning check.

- 110KV HYUNDIA GIS functions and operation commissioning check.
- 13.8KV Schneider Switch gear Functions and operation commissioning check.
- 13.8KV ABB Switch gear Functions and operation commissioning check.
- 13.8KV SIEMENS Switch gear Functions and operation commissioning.
- 13.8KV TRENCH Power Capacitor and shunt Reactor Testing.
- Very good experience about whole Standard GIS and Switch gear testing Techniques:
 - Current Transformer Testing.
 - Voltage transformer testing.
 - Bus Bar Contact resistance testing.
 - Circuit breaker testing (Timing test and Insulation Test).
 - Gas Leakage Test and Gas Density Switch test.
 - GIS and Switch gear current transformer stability test.
- Very good experience about Whole Protection Schemes Testing:
 - GIS Bus bar Protection Panel Scheme Check.
 - Over Head Transmission lines Protection Panel Scheme Check.
 - Power Transformer protection Panel scheme Check.
 - Circuit Breaker Failure protection Panel scheme check.
 - Power Transformer On load tap changer (AVR) with Fan control Panel scheme check.
 - Trip Circuit Supervision Panel Scheme Check.
 - Circuit Breaker Closing Operation by synchronizing Panel scheme Check.
 - Check according to MVAR, Voltage Control Techniques.
- Very good experience about some protection relays testing:
 - Distance & Diff. Relay (SIEMENS 7SD522 & MICOM P 546, SEL 411 & REC 670).
 - Bus bar Protection Relay Test (REB 500 - 7SS522, ...).
 - Power Transformer on load tap changer relay (TAPCON 260 & REG-D).
 - Under/Over voltage relay Test.
 - Synchronizing Relay Test.
 - Under Frequency Relay Test.
- Successfully managed termination of interface cables as per SEC Standard.
- Stability test for transformers, REF, BB 13.8KV and BB 110KV.
- High voltage test for 110KV, 13.8KV.
- Interlock scheme test for 110KV, 13.8KV as per SEC standard.
- Testing of breakers with different ratings 380KV / 110KV / 13.8KV with different types (GIS, SWG).
- High voltage cables testing and other electrical tests for cables.
- Analysis of the relays behavior against different faults on the 220KV / 132KV power system, preparation of their summary reports.
- Trouble-shooting of the faults in the protection and control wiring of the system (comprising 220V D.C/ 110V D.C, 5A A.C, 110V A.C and 220V A.C).
- Testing of Electro-Mechanical & Numerical Over current relays, Distance/Impedance, Breaker failure and all other relays installed in the relay panels.
- Testing of Transformer Protection Relays i-e Differential relays, REF, SEF, NGR, Main Buchholz Relay, Tap Changer buchholz Relay, H.V &

L.V Winding Temperature and Oil Temperature Gauges.

- Testing and commissioning for ABTS scheme and relays (PLC –REC 670).
- Testing and commissioning Synchronizing scheme and synch relays.
- Testing and commissioning ACCS for capacitors bank 13.8KV.
- Testing and commissioning for bus bar protection 13.8KV high impedance.
- Testing and commissioning closed loop using SCADA and SAS system.
- Verification of wiring, testing and commissioning of relays and control panels of 110KV & 13.8KV.
- Use of following Test sets during testing of relays and other equipment:
 - Omicron Universal Test.
 - Universal Test Set (FREJA 300).
 - CPC.
 - CT analyzer.
 - Primary injection Test Set (Especially for CTs).
 - Secondary injection Test Set.
- Quite well familiar with different types of Electromechanical, Static and Numerical relays of SIEMENS, ABB, BBC, GE and AREVA.
- Have experience of working on the Circuit Breakers.
- Reading, testing, execute SIEMENS & ABB & EGMAK wiring control.
- Sharing in connection and testing transformer 500/220/12KV (500 MVA).
- Execution of Electrical Construction Drawings.
- Maintenance of AC Motors.
- Operation and Maintenance of 6.3KV and 400 v Switchgears.
- Electrical Maintenance Engineer and responsible for maintenance of:
 - 500KV G.I.S. Switch Yard.
 - 220KV G.I.S. Switch Yard.
 - Tie Transformer 500/220/12KV (500MVA).
 - Event Recorders.
 - Fault Recorders.
 - DC system (Batteries - Battery Charger - UPS).