

Holds a B. Sc. in Electrical Power & Machines Engineering and a Diploma in Generation and utilization of electric energy and its economics. Has about 17 years hands-on experience working in commissioning of all types of transmission protection systems up to 500KV. Experience in design work concerning substations submittals, relay settings and coordination, fault analysis.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 09/05/1979
Gender : Male
Marital Status : Married
Residence : Giza, Cairo

EDUCATION

: B. Sc. in Electrical Power & Machines Engineering, Cairo University, 2001
: Diploma in Generation and utilization of electric energy and its economics, 2005
: Secondary Education: La Rose De Lisieux English Language School, 1996

LANGUAGES

Arabic : Native Language
English : Very Good

COMPUTER SKILLS

: Windows, MS Office, Internet
: AutoCAD

TRAINING COURSES AND CERTIFICATIONS

: English course with advanced level from the British Council.
: ICDL Certificate.
: Instrument Transformers and Power Measurement course.
: Protection fundamentals course.
: Bus-Bar protection course.
: Basic of digital protection course.
: Distance digital protection (Areva, Micom P442 relay, Sel-321 relay) course.
: PLC programming and applications (basic course).
: AutoCAD drawing program course.

- : Digital secondary injection tester (omicon 356).
- : Predictive maintenance training program.
- : Power transformer protection.
- : Traditional control circuits.

CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Sep. 2012 till now
- Employer** : Egyptian Electricity Transmission Co.
- Job title** : Protection Division Manager
- Job Description** :
- Leading a team of protection engineers at Cairo zone.
 - Experience in commissioning of all types of transmission protection systems up to 500KV.
 - Reporting to protection general manager.
 - Testing and commissioning for 500/220/66KV substations.
 - Full commissioning of new substations up to energization including schemes and relays and stability as HADABA2 s/s 220/66/11KV, HARAM s/s 220/66/11KV, MATAR EMBABA s/s 220/66/11KV, SMART VILLAGE s/s 66/11KV.
 - Monitor and planning related activities to ensure on time completion of transmission protection maintenance.
 - Deliver training to protection engineers on testing procedures in order to ensure optimum test practices are followed.
 - Able to develop detailed testing procedures for each protection scheme in the system.

- Dates** : From Jan. 2010 till Aug. 2012
- Employer** : ThyssenKrupp Xervon – KSA
- Projects** :
- Khafji Joint Operations - KJO:
 - Testing and maintenance of several switchgears and motor control centers including variety of protection relays such as:
 - Motor management relay 369.
 - SEL-551 over current and auto re-closure relay.
 - KAVS synchronizing relay.
 - SEPAM M41, S42 RELAYS for motor and feeder protection.
 - MIF II relays – GE.
 - Testing and inspection of UPS of various types such as: GUTOR, CYBEREX and BORRI.
 - Testing and inspection of batteries of different types and checking specific gravity and electrolyte level.
 - Testing of protective relays type Siemens 7sj602, 7sa610 and ABB RET 610 Differential relays.
 - Substation SHAMIYAH-2 (110/13.8KV), Mekka:
 - Testing of over/under frequency relay type MICOM p923.
 - Testing of over/under voltage relay type REU 610.
 - Function and scheme check of 110KV bus section, Bus coupler protection panels and 13.8KV capacitor protection panels.
 - Function and scheme check of 110KV GIS LCC panels type ABB.
 - Testing of 13.8KV bus bar differential protection relay type Micom-MFAC and its supervision relay type MVTP.

- Substation AL-AMAL (110/13.8KV), Jeddah:
 - Testing of over current and earth relay Micom p122, thermal overload relay Siemens 7sj600.
 - Function and scheme check of 13.8KV protection panels.
 - Function and scheme check of 13.8KV bus bar protection panel, ABB made.
 - Function and scheme check of AVC panels (auto voltage control) for transformers.
- Turn around 2010 at Samref Plant at Yanbu Industrial City:
 - Testing of circuit breakers (timing, contact resistance, insulation resistance).
 - Testing of 4.16KV pumps.
 - Testing of protection relays (Siemens and GE).
 - Testing of MOV (motor operated valves).
- KING FAHD INDUSTRIAL PORT, Jubail Industrial City:
 - Site Manager of the group responsible for maintenance and testing, the following was done:
 - Testing of protection relays like over current and earth fault relays, pilot wire, reverse power, differential.
 - Testing of batteries using Torkel test set.
 - Testing of circuit breakers of 34.5KV level and below.
 - Testing of power transformers 115/34.5KV and 34.5/13.8KV.

Job title : Senior Protection Engineer

Job Description :

- Full commissioning of new substations of various voltage levels and performing maintenance and testing activities in industrial power plants.
- Sharing in design modifications, schemes and matching new parts with original plant design.
- Predictive maintenance course in LIBYA: Working as an Instructor in this course which includes certain test set equipments used in predictive maintenance like: megger, corocam (for corona detection), ultrasonic sound detector (for partial discharge detection), DGA test set (for dissolved gas analysis of power transformers oil). The course done in the period from Aug. to Oct. 2010 for the benefit of GECOL – General Electricity Co. of LIBYA.

Dates : From Apr. 2008 till Nov. 2009

Employer : ALOTHMAN CONSULTANT – KSA

Job title : Protection & Commissioning Test Engineer

Job Description : Testing, commissioning and witnessing of new substations of various voltage levels (220, 132, 69, 13.8KV) in KSA:

- New Ruwais 2 (115/13.8KV) substation, Jeddah:
 - Witnessing of the following activities:
 - Bus bar differential protection type Siemens 7ss5.
 - Line differential protection type Siemens 7sd.
 - Distance protection type Siemens 7sa5.
- SKAKA-A & DOUMAT ALJANDAL substations (132/13.8KV), Aljouf area:
 - Bus bar differential protection type Siemens 7ss5.
 - Snag clearance of new Aljouf Power Plant.
- Substation 8127 (132/13.8KV), Riyadh:
 - CT tests – primary and secondary and loop resistance and saturation tests.

- VT tests – primary and secondary and loop resistance tests.
- High impedance bus bar protection type "DAD".
- CT supervision relay type "RAYDEK".
- Transformer stability test "differential and restricted earth fault".
- Synchro-check relay scheme test.

Dates : From May 2002 till Apr. 2008

Employer : Egyptian Electricity Transmission Co. (EETC)

Job title : Protection & Commissioning Test Engineer

Job Description :

- Testing and commissioning for substations protective relays and substation switchgear.
- Making full commissioning for new substations.
- Testing and commissioning for substations:
 - Have extensive experience and knowledge on maintenance and commissioning of all types of protection equipments and various types of digital and numerical protection relays and tele-protection equipment and metering equipments of transmission network.
 - Have experience on fault analysis and preparing abnormality reports.
 - Have experience in checking of protection scheme & protection drawings and modification of protection/ metering schemes.
 - Have experience to change old or damaged power transformers 66/11KV by new transformers as I did before in "Berkash" substation changed two transformers 66/11KV, "Abo-Ghaleb" substation changed three transformers 66/11KV, "North Saff" substation changed three transformers 66/11KV and "El-Remaya" substation changed one transformer 66/11KV.
 - Have experience to add new transformers 66/11KV and capacitor banks, make it's control, protection and marshalling panels and make necessary connections and wiring diagrams for it as I did before in "El-Remaya" Substation added a new transformer 66/11KV, "Zenein" substation added one capacitor bank 11KV.
 - Have experience to change air C.B. and oil C.B. 66KV with SF6 breakers 66KV as I did in "El-Alamein" substation 66/11KV, "North Saff" substation and "Kafr Al-Elw" substation.
 - Have experience to change old manual isolators 66KV with new motorized isolators and make necessary connection.
 - Have experience to change old mechanical and static protective relays with new digital relays and make necessary connection to relays and program and test it as I did before in "El-Alamein" substation, "El-Remaya" substation, "North Saff" substation, "El-Leithy" substation, "Zenein" substation, "Kafr Al-Elw" substation.
 - Have experience on inspection of protection and metering equipment at site and factory.
 - Have experience in using computerized testing equipments and to carry out testing of all type of relays.
 - Have skills to program, test and get fault recorder of SIEMENS relays like 7Sj600 O\C & E\F relay, 7SJ602 O\C & E\F relay, 7SA510 distance relay, 7SA610 distance relay, 7UT512 transformer differential, 7UT612 transformer differential and 7SD610 line differential.
 - Have skills to program, test and get fault recorder of ABB relays like

REL 316 distance relay, RET transformer differential, SPAD transformer differential, SPAJ131C O\C & E\F relay, SPAJ140C O\C & E\F relay and REF feeder protection.

- Have skills to program, test and get fault recorder of ARIVA relays like MICOM P441 and P442 distance relays, MICOM P125, P126 and P127 directional and non directional O\C & E\F protection.
- Have skills to program, test and get fault recorder of "SEL 321" distance relay.
- Ability to work within a team and under pressure to fix any accidental problem and maintain the continuity of supply.
- Working as Standby Engineer for attending emergencies.
- Make commissioning tests for substations switchgear (C.T., V.T., C.B. and isolators) as I did before in new substations in Egypt like "Smart Village" 66/11KV substation, "El-Badrashein" 66/11KV substation and "Berkash" 66/11KV substation.