

Holds a B. Sc. in Electrical Power Engineering and has about 10 years hands-on experience in protection field. Familiar with the most common test equipment, digital relays and protection schemes.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 07/11/1977
Marital Status : Married

EDUCATION

: B. Sc. in Electrical Power Engineering, Tanta University, 2002

LANGUAGES

Arabic : Native Language
English : Very Good

COMPUTER SKILLS

: Windows, MS Office, Internet

TRAINING COURSES AND CERTIFICATIONS

- : Training course on large capacity Power Transformers Design and Maintenance for three weeks in ZTR factory (Ukraine).
- : Training course on HV Generator Circuit Breaker Design and Maintenance for six days in ABB factory (Switzerland).
- : Training course on generator protection in SIEMENS factory (Germany) for 6 days.
- : Training in 500KV OHTL, Bus Bar and transformers protection with AREVA T&D.
- : Training in transformers protection with GE MULTILIN.
- : Training in 220KV OHTL protections with ABB.
- : Training in 500KV CBs mounting and maintenance with HITACHI Corporation.

CHRONOLOGICAL EXPERIENCE RECORD

Dates : From Dec. 2010 till now
Employer : AL-Toukhi Company for Industry, Trading & Contracting (TIT) – KSA
Job title : Electrical Protection Engineer

- Job Description** : • Wadi Al-Dawaser project:
- Commissioning and functional test for GIS 132KV LCC, control and protection panels for four feeders.
 - 150 MVA power transformer primary stability test, 33KV busbar stability test for two feeders and 132KV busbar stability test for two feeders.
 - Troubleshooting and punch list clearance of GIS 132KV LCC, control and protection panels for four feeders.
 - Troubleshooting and punch list clearance of 13.8KV switchgear and generating units auxiliaries.
- Tabouk Power Plant stage 7:
- Commissioning and functional test for medium and low voltage switchgears, step up transformer 110 MVA and auxiliary transformer 10 MVA and four 3 MVA service transformers.
 - Generator and transformer protection panels (GE type).
- Dates** : From Mar. 2004 till Dec. 2010
- Employer** : Middle Delta Electricity Production Company (MDEPC)
- Project** : Nubaria Power Station 3x750MW:
 Consists of 4 CTGs (SIEMENS) and 2 STGs (MITSUBISHI) with total power of 1500MW, in addition to the extension 2 CTGs (GE) and 1 STG (ALSTOM) with 750MW, which will be start soon to complete the total power of the station to be 2250MW.
 This power station also contains:
- 500KV Double Busbar Double Breaker Switchyard (HITACHI) with MICOM protection relays.
 - 220KV Double Busbar Single Breaker with Bus Coupler Switchyard (ABB).
 - Two 500KV OHTL with MICOM protection relays.
 - Eight 220KV OHTL with ABB protection relays.
 - Four tie transformers 500/220/12KV (ZTR) with MICOM protection relays.
- Job title** : Electrical Construction & Protection Engineer
- Job Description** : • Design review and modification if required for protection system.
 • Construction supervision and site work for electrical equipments.
 • Factory and site inspection for electrical equipment and relay panels.
 • Testing and commissioning for all electrical equipment related to the power plant such as CTG generators, STG generators, Large capacity main power transformers 300/340 MVA 500/16KV, unit aux. power transformers 16/6.3KV, medium and low voltage motors, medium voltage switchgear, Low voltage load centers, Motor Control Center, Medium/Low voltage cables, EHV/HV outdoor Switchyard (CB, CT, VT and Disconnecter switches).
 • Performing all electrical testing such as insulation resistance test (Megger), HV test for motors, transformers, cables and generators, tan delta test and for transformers, polarity check for CTs, turns ratio for CTs/VTs, DC resistance test, magnetization test, protection relay testing with secondary injection tester (Omicron CMC 365, Isa DRTS, Manta, SVERKER), primary injection test for differential relay stability using programma (ODEN) tester.
 • Review relay setting according to the design requirements.

- Preparing of the maintenance schedule for all protection systems.
- Testing and commissioning for all protection relay panels related to the power plant such as MV switchgear protection system (SEPAM Schneider), main and aux. power transformers (GE universal relays T60, T35, DTP and MIF II P / MIF II N over current relays), CTG Generator protection panel (SIEMENS SIPROTEC.4 7UM62 and synchro-check device 7VE6110/7VE6320), STG generator and excitation transformer protection system (BECKWITH USA M-3425A and M-3310), Busbar protection panel (MICOM P740/P742), 500KV bay protection relay (MICOM P143), 500KV OHTL Distance protection system (MICOM P442/P437), 220KV Busbar Protection system (ABB REB 500), 220KV OHTL Distance protection system (ABB REL 531/316), 500/220/11KV Tie transformers 500 MVA protection relay (MICOM P632) and all protection schemes for large motors and distribution transformers.
- Fault analysis, investigation and recommend the correction action for all trips and emergencies.
- Overall commissioning of control & protection schemes which include functional checks, interlock scheme testing for various protection tripping signal, Loop testing of CT, PT circuit.

Dates : From Jan. 2003 till Mar. 2004
Employer : FORTEX for Textile Industries
Job title : Electrical Maintenance Engineer
Job Description : Carrying out factory electrical maintenance work for motors and medium/low voltage switchgear.

Field of experience and skills:

- Familiar with the most common test equipment such as Megger, AVO, HV tester "BAUR PGK HB", Tan Delta Tester (DOUBLE), Secondary Injection Tester (Omicron CMC 356, Isa DRTS, Manta, SVERKER750), Primary Injection tester (PROGRAMMA -ODEN), CB analyzer (CT 6500), contact resistance (CRD – 100x2).
- Familiar with the most common digital relays and protection schemes such as ABB protection Relays (REL316x4, REL531) for 220KV OHTL protection and REB500 for 220KV double busbar single breaker with bus coupler switchyard protection system and ABB products REJ523 (OC, SC, EF...J) and REU525 (UV, OV, etc.) for medium voltage switchgear, SIEMENS Relays (SIEMENS SIPROTEC.4 Generator Protection Relay "7UM62" and Synchro-Check Device 7VE6110/7VE6320), AREVA MICOM protection relays (MICOM P632 Transformer Protection Relay, MICOM P442/P437 Distance Protection Relay, MICOM P740/P742 Busbar Differential Protection System, MICOM P141 / P143 BF and OC protection relays, LFAA102 Autorecloser device), GE Universal Relays (T60/T35 Transformer Protection Relays), GE M Family (MIFII and MIFII N Feeder Relays), BECKWITH generator protection system (M-3425A and M-3310) and Schneider SEPAM (S20/S40/M41) protection relays, etc.
- Preparing of testing procedures, energization procedures for all electrical system and protection panels.
- Experienced in fault analysis and investigation.

- Capable of design review, relay setting calculation, CT/VT calculations, protection schemes coordination for different systems.
- Experienced in witnessing electrical testing and over all commissioning.
- Experienced in site and factory inspection for electrical equipment.
- Relays software applications skills:
 - CAP (for ABB product).
 - MICOM S1 (for AREVA T&D products).
 - EnerVista (for GE MULTILIN products).
 - IPSCOM (for BECKWITH ELECTRIC products).
 - SFT2841 (for Schneider products).
 - DECSI 4 (for SIEMENS products).