

Holds a B. Sc. in Electrical Power & Machines Engineering and has over 4 years hands-on experience in electrical testing and protection for power systems.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 01/02/1982
Marital Status : Married

EDUCATION

: B. Sc. in Electrical Power & Machines Engineering, Al-Azhar University, 2006

LANGUAGES

Arabic : Native Language
English : Good

COMPUTER SKILLS

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

CHRONOLOGICAL EXPERIENCE RECORD

Dates : From May 2010 till now
Employer : AREVA Company
Project : Cairo West 500KV extension
Job Description :

- 500KV GIS one and half circuit breaker.
- Install two circuit breakers on the existed system.
- Modification between the new CB and existed CB for protection as bus bar protection, breaker failure and for the remote panels.
- Primary injection for testing the CT circuit.
- CT primary and secondary megger test.
- CT secondary injection.
- VT secondary injection.
- AREVA Micom p143 as breaker failure and synchro check protection commission and testing.
- AREVA Micom p139 as GIB differential protection relay.
- Bus bar primary injection for bus bar stability.
- Scheme and interlock testing.
- Fault recorder installation.

Dates : From Mar. 2010 till May 2010
Employer : Thyssen-Krupp Company – KSA
Project : Saudi Electricity Company one of kingdom project, East region - ALJUBAIL - ALJUBAIL secondary industries, Substation 4 (115/34.5KV):

- Two transformers 100MVA ONAF 115/34.5/13 KV HYUNDI.
- 115KV GIS HYUNDI with four OHL and four future OHL.
- ABB medium voltage SWG 34.5KV.

Job title : Testing & Commissioning Engineer in substation
Job Description :

- Medium voltage SWG 34.5KV wiring check.
- GIS 115KV wiring check.
- 115KV Bus bar stability test.
- AREVA transducer testing current, voltage watt and var transducers.
- AREVA MICOM P127 as over current, directional earth fault and auto reclosure for 34.5KV feeders.
- AREVA MICOM P142 over current and directional earth fault for transformer 115/34.5KV high voltage and low voltage side.
- MCB testing ABB MCB different rating.
- HYUNDI contactors testing DC and AC contactors HMT22, HMT40, HMX22.
- Test Tools:
 - SVERKER 760.
 - FREJA 300.

Dates : From Apr. 2007 till Mar. 2010
Employer : Ministry of Electricity
Project : Cairo West Power Station:

Generation units:

- Four generation units each unit 87.5MW Westinghouse generators 13.8KV.
- Two units each unit 330MW Siemens generators 21KV.

GIS and distribution system:

- Two generation units each 330MW 21/500KV (SIEMENS).
- 500KV GIS one and half circuit breaker (AREVA).
- Two overhead transmission lines 500KV.
- Two autotransformers 500/220KV, 375 MVA.
- Four generation unit 87.5MW 13.8/220KV (Westinghouse).
- 220KV GIS double bus bar single breaker (AEG).
- Five overhead transmission lines 220KV.
- Four transformers 220/66/11KV, 125 MVA.
- 66KV GIS with 7 underground cables (AEG).
- Two distribution transformers 66/11KV, 25 MVA.
- 11KV distribution system with 14 feeders (EG MAC).

Protection devices and types:

- Generators protection:
 - Westinghouse electro mechanical relays like HU1 generator differential relay, CO8 over current relay, COQ negative phase sequence, minimum impedance.
 - ABB matrix generator protection relays.
- Transformer protection devices:
 - 500/220KV:

- AREVA protection relay.
- KBCH130 AREVA as differential relay, MCCG22 as over current, MBCH as static differential relay, METI as directional earth fault.
- 220/66/11KV:
 - Differential protection relay type ABB (SQT32) as main protection.
 - Directional over current relay type ABB (SD35A).
 - Over current relay ABB (SMK351).
 - RE Earth fault relay ABB (SQE21).
 - Earth fault relay ABB (sm103).
- 220KV Lines protections devices:
 - Distance relay as main1 protection ABB (RAZFE) DISTANCE Relay.
 - Distance relay as main 2 protection BBC (LZ96A).
 - Directional earth fault relay ABB (SUG1).
 - Over current relay ABB (RSZ3).
- 66KV Lines protections devices:
 - Distance relay as main protection BBC (LH1W).
 - Directional earth fault relay ABB (SUG1).
 - Over current relay ABB (RSZ3).
- 11KV Lines protections devices:
 - 7SJ6005 SIEMENS over current and earth fault relay.

Job title : Protection Engineer

- Job Description** :
- Installing and testing all protective relays that has been mention before for generators, transformers, lines, feeders and motors.
 - Complete installation of multi function relay (MICOM P543) line differential on 66KV lines.
 - Complete installation of protection relay (7sj6005 Siemens) over current and earth fault 11KV distribution (10 lines).
 - Stability test of any differential relays alike for generators or transformers or motors.
 - Ability to build-up a new protection system for any kinds of electric machines and lines.
 - Transformers testing (DC resistance, megger test, turns ratio test, tan delta test and stability test).
 - High voltage and medium voltage circuit breaker test (timing and contact resistance).
 - High voltage and medium voltage switch yard maintaining.
 - Low voltage circuit breaker maintaining.
 - Low voltage switchgear maintaining.
 - Low voltage motors maintaining.

Software knowledge:

- Good working with DIGISI 4.82 software for SIEMENS product relays.
- Good working with MICOM software for AREVA product relays.
- AREVA MICOM studio PSL.