

Holds a B. Sc. in Electrical Power & Machines Engineering and a Diploma in Power System Protection. Has over 11 years hands-on experience in maintenance, erection, construction, operation, protection, testing and commissioning of substation equipments (380/220/132/66/13.8KV).

PERSONAL DATA

Nationality : Egyptian
Birth Date : 16/10/1971
Gender : Male
Marital Status : Married
Residence : Giza, Cairo

EDUCATION

: B. Sc. in Electrical Power & Machines Engineering, Zagazig University, 1999
: Diploma in Power System Protection, Cairo University, 2005

LANGUAGES

Arabic : Native Language
English : Good

COMPUTER SKILLS

: Windows, MS Office, Internet

TRAINING COURSES AND CERTIFICATIONS

: Courses at Cairo South Training Center:

- Testing of power transformer.
- Maintenance & testing of on-load tap changer (ABB).
- Analysis of dissolved gasses of transformer's oil.
- Control circuits in substation.
- Auxiliary transformers testing & erection (CT & VT).
- Over current relays (theory & testing).
- Differential protection relays.
- CBF protection relays.

: Training in France for AREVA relays.

CHRONOLOGICAL EXPERIENCE RECORD

Dates : From Apr. 2009 till Sep. 2009
Employer : [EGYPTROL](#), Commissioning & Operation Subcontractor for BoP Electrical and Mechanical Contractors TOSHIBA/TOYOTA
Project : EI-Atf Combined Cycle Power Plant 750MW
Job title : QC & AC (Manager) Electrical Engineer
Job Description :

- Co-ordinate with Owner/Consultant for inspection.
- Monitor and control subcontractor work quality.
- Co-ordinate with TPSC commissioning.
- Prepare/update/maintain quality records.
- Prepare/submit documents related to Construction Completion Certificate.
- O/C & E/F (7SJ 612) SIEMENS.
- Diff. relay (7UT613).
- CT test such as Megger – Polarity – Trons ratio – Mag curve, using CT analyzer.
- Aux. relays test.
- Relays final setting.
- Function test.

Dates : From Mar. 2008 till Nov. 2008
Employer : Al Fanar Construction Company – KSA (AT & C)
Project : JUBAIL SW substation 230KV
Job title : Senior Protection, Testing & Commissioning Engineer
Job Description :

- Testing in JUBAIL SW substation 230KV:
 - DISTANCE & DEF & LINE DFFI relay (7SD522) SIEMENS.
 - O/C & E/F relay (7SJ612) SIEMENS.
 - Distance relay (7SA522) SIEMENS.
 - BF relay (7VK 611) SIEMENS.
 - CT test such as Megger – Polarity – Trons ratio – Mag curve.
 - Aux. relays test.
 - Trip relay test.
 - Secondary injection.
 - Lock out relay.
 - Function check for AC DB & DC DB.
 - Syn. Check relay test (7VK 611) SIEMENS.
- Some tests in GIS 230KV:
 - Contact resistance.
 - Guge calibration.
 - Function check for GIS.

Dates : From Oct. 2007 till Feb. 2008
Employer : BEMCO Construction Company, Dubai – UAE
Project : SAHARA substation 66KV
Job title : Senior Protection, Testing & Commissioning Engineer
Job Description :

- Testing in SAHARA substation 66KV:
 - O/C & E/F (7SJ 612) SIEMENS.
 - Distance relay (7SA522).

- Aux. relays test.
- CT test such as Megger – Polarity – Trons ratio – Mag curve, using CT analyzer.
- Lock out relay.
- Secondary injection.
- BF relay (RAB4).
- Function of load chedding.
- Relays final setting.
 - Loop resistance.
 - Function test.
 - Metering (ammter – voltmeter – MW, etc.).

Dates : From Mar. 2007 till Sep. 2007

Employer : BEMCO Construction Company, Doha – QATAR

Projects :

- Project New Doha International Airport
- Noth Substation 66/11KV
- Doha Substation 66/11KV

Job title : Senior Protection, Testing & Commissioning Engineer in Substations (220/66KV)

Job Description :

- Testing in Noth & Doha substation 66/11KV:
 - Distance relay (MICOM P442).
 - O/C & E/F relay (MICOM P 126 – 122).
 - Distance relay (7SA522).
 - CT test such as Megger – Polarity – Trons ratio – Mag curve.
 - Aux. relays test.
 - Trip relay test.
 - Secondary injection.
 - Primary injection test.
 - Sensitivity and Stability test.
 - Function test.
 - Metering (ammter – voltmeter – MW – MVAR).

Dates : From Feb. 2006 till Feb. 2007

Employer : Al Fanar Construction Company – KSA (ATS)

Projects :

- Al Nazzem Substation 132/13.8KV
- Gernata Substation 132/13.8KV
- Power Plant (PP9) 380/132KV

Job title : Protection, Testing & Commissioning Engineer in Substations (380/132/13.8KV)

Job Description : Testing in Gernata 132/13.8KV & AL NAZZEM Substation:

- Tests of 13.8KV SWGR:
 - CT test such as Megger – Polarity – Turns ratio – Mag curve.
 - VT loop.
 - O/C relay test (REJ 525 – ABB).
 - Aux. relays test.
 - Primary injection test.
 - Relays final setting.
 - Sensitivity and Stability test.
 - Function test.
- Tests of 132KV:
 - CT test such as Megger – Polarity – Trons ratio – Mag curve.
 - VT loop.

- Aux. relays test.
- MCB test.
- SACO test.
- O/C relay test (REJ 525 – ABB).
- CBF relay test (RICA).
- REF relay test (RADHD).
- Diff. relay test (RADSB).
- CT Sup. Relay test (RAEDK3).
- Syn. Check relay test (RASC).
- Primary injection test.
- Relay final setting.
- Sensitivity and Stability test.
- SCADA test.
- U/F relay test (FCN950).
- Trip relay test.
- Function of load chedding.
- Relays final setting.
- Loop resistance.
- Function test.
- Metering (ammter – voltmeter – MW, etc.).
- Secondary injection.

Testing in Power Plant (PP9) 380/132KV:

- CT test such as Megger – Polarity – Trons ratio – Mag curve.
- VT loop.
- Aux. relays test.
- MCB test.
- SACO test.
- O/C relay test (REJ 525 – ABB).
- CBF relay test (RICA).
- REF relay test (RADHD).
- Diff. relay test (RADSB).
- CT Sup. Relay test (RAEDK3).
- Syn. Check relay test (RASC).
- Primary injection test.
- Relay final setting.
- Sensitivity and Stability test.
- SCADA test.
- U/F relay test (FCN950).
- Trip relay test.
- Function of load chedding.
- Relays final setting.
- Loop resistance.
- Function test.
- Metering (ammter – voltmeter – MW, etc.).

Dates : From Mar. 2000 till Jan. 2006
Employer : Egyptian Electricity Transmission Company (EETC)
Job title : Protection, Testing & Commissioning Engineer
Job Description : Worked in testing of ALSTOM, SIEMENS and ABB Relays:
 • ALSTOM Relays:
 - Distance relay (MICOM P 442 – 441).
 - O/C & E/F relay (MICOM P 126 – 122).
 - DO/C & DEF relay (MICOM P 127).

- ABB Relays:
 - Distance relay (REL 316 – 522).
 - O/C & E/F relay (REJ 525).
- SIEMENS Relays:
 - Distance relay (7SA522).
 - O/C & E/F relay.
 - CT test (Megger – Polarity – Turns ratio – Mag curve).
 - VT loop.
 - Sensitivity and Stability test.
 - BB Protection test.

Field of experience and skills:

- Experience in maintenance, erection, construction, operation, testing commissioning of substation equipment, reading the schematic diagrams, review/comment on draft As-built drawings, operation and maintenance manuals submitted by contractors/manufacturers, reporting & preparing time schedules needed for the work in the field of HV substation (380/220/132/66/13.8KV).
- Experience in testing all types of relays and substation schematic and doing modification in the panels interfacing.
- Experience in indoor, outdoor, GIS, Oil and Vacuum type of Switchgears.
- Experience in protection setting calculation and short circuit calculation for all types of relays.
- Experience in protection simulation software CAPE "USA".
- Practical experience with Electrical Machines and familiar with Electrical Equipments such as generators, transformers, relays, circuit breakers, etc.