

104299-ELE-1MOPT-E-2008

Protection & Maintenance Engineer

Holds a B. Sc. in Electrical Power & Machines Engineering and a High Diploma in Electrical Protection. Has about 10 years experience in electrical protection and maintenance, experienced in steam power stations and G.I.S. substations commissioning work.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 25/04/1986
Gender : Male
Marital Status : Married
Residence : Qalubia

EDUCATION

: B. Sc. in Electrical Power & Machines Engineering, Banha University, 2008
: High Diploma in Electrical Protection, Cairo University, 2014

LANGUAGES

Arabic : Native Language
English : Good

COMPUTER SKILLS

: Windows, MS Office, Internet

TRAINING COURSES AND CERTIFICATIONS

- : At Cairo West Training Center:
 - 220 & 66KV GIS Substation Operation and Protection.
 - 500KV GIS Operation and breakdown repair (by ALSTOM).
 - Bus bar protection (by SIEMENS).
 - Feeders protection (by ABB).
 - Unit (Generator and Transformer) Protection.
 - Electrical excitation systems.
 - Industrial Security and Civil Defense Training.
 - PLC course (SIEMENS step7-200).
 - Boiler and auxiliary system.
 - Station UPS System.
 - English course from American University in Cairo.

- : Advanced training (Bechtel course) Shoubra El-Kheima Power Plant basic and site specific training courses, constituting a program of concentrated study of power plant equipment and system theory and application, training offered by Bechtel, at Shoubra El-Kheima Training Center.

CHRONOLOGICAL EXPERIENCE RECORD

- Employer** : Egypt Electricity Holding Company (EEHC)
Cairo Electricity Production Company (CEPC)
- Projects** :
- Cairo West Thermal Power Station:
 - 2 units "Siemens" Steam Turbine & Generator: (MCR: 357MW).
 - 2 units "Mitsubishi" Steam Turbine & Generator: (MCR: 370MW).
 - 2 Start-up Transformers 66/6.6KV.
 - 2 plant Transformers 220/3.3KV.
 - 2 Bus Bars 6.6 KV feed Station Auxiliaries by 4 Transformers 6.6KV / 400 V.
 - Medium voltage motors.
 - Cairo West GIS Substation 500, 220, 66 and 11KV with the following description:
 - Two feeders 500KV.
 - Six feeders 220KV.
 - Eight feeders 66KV.
 - Two auto-transformers 375 MVA (500/220KV).
 - Four transformers 125 MVA (220/66KV).
 - Two transformers 25 MVA (66/11KV).
 - 11KV Distributors.
- Field of experience** :
- Participation with PSP Company for test and commissioning Wadi El-Natron substation 66KV for one month (2015).
 - Participation with APC (Advanced Power Company) for test and commissioning El-Mostasmren 220-66KV substation for one month (2017).
 - Experience in protection and maintenance for Generators, Transformers, transmission lines and busbar.
 - Experience in protection and maintenance for medium and low voltage switchgears.
 - Participation with ALSTOM Company for installing and commissioning the extension of 500KV GIS switchgear, control and protection.
 - Participation with SIEMENS Company for installing and commissioning the upgrading of BUSBAR protection (66KV) and (220KV).
 - Participation with ALSTOM Company for installing and commissioning the extension transformer 40 MVA, 66/11KV, control and protection.
 - Testing and commissioning Siemens protection relays (distance protection 7sA6111; 7SA610; over current 7Sj605; Diff. 7ut612), Alstom relays (p632, p442).
 - Carrying out routine testing for the protection devices which installed on 500KV switchgear and Gas Insulated Substation (220/66/11KV) which equipped with the following components:
 - 500KV switchgear contains two bus-bars, one and half breaker (hydraulic drive) with bays, these bus-bars receive power from 4 generation units, 350MW each and send it to 2 auto transformers (500/220KV) 375 MVA each, also there are 2 over-head lines 500KV

deliver power to other substations.

- 220KV switchgear contains two bus-bars, single breaker (pneumatic drive) with 22 bays including one bus-coupler, these bus-bars receive power from 4 generation units, 87.5MW each and send it to 4 transformers (220/66/11KV) 125 MVA each, also there are 6 over-head lines 220KV (from other substations) may receive or deliver power.
- 66KV switchgear contains two bus-bars, single breaker (pneumatic drive) with 22 bays including two bus-sectionalize and two bus-coupler, these bus-bars receive power from the 4 transformers (220/66/11KV) 125 MVA each and send it to 7 under-ground cables 66KV and 2 transformers (66/11KV) 25 MVA each.
- 11KV switchgear contains three bus-sections with 21 vacuum breakers (motor drive) including one bus-sectionalize and receive power from the two transformers (66/11KV) 25 MVA each and deliver it to 14 feeders 11KV.