

Holds a B. Sc. in Electrical Power Engineering and has over 13 years hands-on experience working in maintenance, operation and commissioning at Nubaria Combined Cycle Power Station.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 22/04/1978
Gender : Male
Marital Status : Married
Residence : El-Behira

EDUCATION

: B. Sc. in Electrical Power Engineering, Menoufia University, 2002
: Higher Study Diploma in electrical protection system, Cairo University, 2016

LANGUAGES

Arabic : Native Language
English : Very Good

COMPUTER SKILLS

: Windows, MS Office, Internet

TRAINING COURSES AND CERTIFICATIONS

: Project Management Professional (PMP) (from Sep. till Nov. 2014).
: ALSTOM Power Plant Training Center, Mannheim / Germany (Nov./Dec. 2009):

- Generator design.
- Auxiliaries.
- Excitation System.
- Protection System.

: Schneider Electric Co.:

- Operation and maintenance of switchgear medium voltage (6.3KV).
- Operation and maintenance motor control center low voltage (400V).
- Load center transformer.

: Metito Co. – Training in water treatment in the following:

- Demineralization Plant.
- Pre-Treatment Plant.
- Sewage Treatment Plant.
- Potable Water System.

- Waste Water Treatment System.
- Oil/Water Separator System.
- Chemical Injection System.
- : Initec Energy Co.:
 - Operation and maintenance of battery & battery charger.
 - Operation and maintenance of Diesel engine electrical system.
 - Operation and maintenance of Sump pump system.
- : Chloride Co.:
 - Operation and maintenance of all batteries.
 - Testing of CHARGE / DISCHARGE of batteries.
- : Grid Training Center in South Cairo: OLTC "Overload Tap Changer" of ABB Company.
- : GE Energy Co.:
 - Complete course in generators controls.
 - Complete course in generators maintenance.
 - Complete course in electrical auxiliary of the unit.

CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Jun. 2003 till now
- Employer** : Middle Delta Electricity Production Company
- Project** : Nubaria Combined Cycle Power Station I, II, III (3x750MW):
- Modules I & II:
 - Four Siemens Gas turbine generators 4x250MW
 - Four ALSTOM horizontal boilers HRSGs
 - Two Mitsubishi Steam turbine generators 2x250MW
 - ABB / Consiys Switchyard 500/220KV
 - ZTR main & auxiliary and tie transformer
 - Auxiliary system (pump house – water treatment unit)
 - Medium voltage switchgear and low voltage MCC
 - DCS control
 - Module III:
 - Two GE gas turbines 250 MW frame MS9001FA
 - Two horizontal boilers STF HRS
 - One ALSTOM steam turbine 250MW (HP, IP, LP stages)
 - Auxiliaries (service, closed cooling, circulating systems, etc.)
 - 500KV switchyard
 - Medium and Low Voltage Switchgears
- Job titles** : • Currently: Head of Electrical Maintenance Department
 • Senior Electrical Construction, Commissioning & Maintenance Engineer
- Job Description** : • From Jan. 2010 till now:
- Making in all electrical maintenance of the following:
 - Gas turbine generator 4x250MW (Siemens units): Worked in minor & major inspection of Siemens units. Attend with Siemens in all electrical tests such as bump test, partial discharge test, high voltage test ac-dc, megger, etc.
 - The experience of pulling out gas turbine generator rotor.
 - Steam turbine generator 2x250MW (Mitsubishi units): Worked in minor & major overhaul inspection for Mitsubishi.
 - Operation & maintenance of Transformers such as:
 - Main transformers (16.5 to 500KV) for gas turbine units.
 - Main transformers (15 to 500KV) for steam turbine units.

- Auxiliary transformers (16.5/6.3/6.3KV) for gas turbine units.
- Tie transformer (500KV/220KV/11KV).
- Excitation transformers (15KV/600V) for steam turbine units.
- Exchanging ZTR transformer with new HYSOUNG transformer.
- Generator circuit breakers ABB.
- Switchgear (6.3KV).
- MCC (400V) and load center.
- Electrical valves in HRSG.
- Battery – Battery Charger – DC & UPS system.
- Electrical system of emergency Diesel engine.
- Electrical system of fire Diesel engine.
- Water treatment plant.
- Nubaria Station colony electrical activities (transformers, sump pumps, lighting, etc.).
- Hydrogen generation unit (for generating hydrogen used in steam turbine generator cooling).
- Heat ventilation system HVAC, electrical maintenance.
- All maintenance activities in switchyard 220KV & 500KV electrical system.
- From Jan. 2007 till Dec. 2009:
Working in electrical system construction and commissioning of the following:
 - Two General Electric (GE) Gas turbine generators 2x250MW.
 - LCI control and SEE control.
 - Dry transformer.
 - All auxiliaries in units of module 3.
- From Jun. 2003 till Dec. 2006:
Construction and commissioning of the following:
 - Electrical system of switchyard 500/220KV.
 - Electrical system of medium voltage (6.3KV) Schneider switchgear.
 - Electrical system of low voltage (400V AC) Schneider MCC.
 - Electrical system of battery, battery charger, diesel engine, DC-UPS system.
 - Electrical system of ZTR power transformer (main and auxiliary).
 - Electrical system of Siemens gas turbine (generator – power control center – SFC – SEE – all auxiliary unit) V94.3A.
 - Electrical system of Mitsubishi steam generator turbine.
 - Electrical system of pump house and water treatment unit.
 - Electrical system of elevators.

Further experience : Worked as Electrical Engineer in Future Consult Company Consulting Engineering in (SAR) in Water Distribution Station and Water Tank Project in KHAMIS MUSHAYT.

Field of experience :

- Field Skills:
 - Administrative skills for operate full staff of engineers and technicians.
 - Set of electrical maintenance program.
 - Gas turbine generator (Siemens and GE units).
 - Frequency converter operation and maintenance.

- SFC "static frequency converter" and SEE "static electrical excitation" & LCI "load commutated inverter" system.
- Electrical auxiliaries of STG & CTG units.
- AC & DC electrical machine & Wiring Circuit.
- Testing, commissioning, operation and maintenance of switchgear medium voltage (6.3KV).
- Testing, commissioning, operation and maintenance motor control center low voltage (400V).
- Testing, commissioning, operation and maintenance Load center transformer, diesel engine.
- Pulling out of generator rotor.
- Knowledge in international standards (IEC, ANSI / IEEE, etc.) for major electrical equipment with knowledge in SEC specifications and standards.
- Test Skills:
 - Tie, auxiliaries and main transformers commissioning tests (Tan δ test, insulation (megger) test, DC resistance).
 - Transformers mechanical protection relays tests (Buchhlez relay, pressure relief device, rapid pressure device).
 - CB's tests (Timing test, DC resistance, high voltage test for 500KV CB'S, megger test, SF6 dew point, trip and alarm SF6 values).
 - CT'S tests (insulation (megger) test, turns ratio, magnetizing test, polarity test).
 - VT's tests (turns ratio, insulation (megger) test).
 - Disconnecting switches tests (contact resistance).
 - Earthling switches tests (earthling resistance).
 - Battery impedance test.
 - Leakage current for surge arrestors.