

Holds a B. Sc. in Electrical Power & Machines Engineering and has about 16 years experience working in construction and maintenance.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 10/01/1977
Gender : Male
Marital Status : Married
Residence : Behira

EDUCATION

: B. Sc. in Electrical Power & Machines Engineering, Al-Azhar University, 2005

LANGUAGES

Arabic : Native Language
English : Very Good

COMPUTER SKILLS

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

TRAINING COURSES AND CERTIFICATIONS

- : Basic operation / maintenance (training) Siemens gas turbine v94.3A (Mar. 2008): Introduction to the plant - Electrical and I&C part, Gas turbine part (Nubaria).
- : Operation and maintenance of HRSG, Nubaria (Mar./Apr. 2008).
- : Operation and maintenance (training) of switch yard 500KV & 220KV, Nubaria (Apr. 2008).
- : Amplissima user training, Talkha Gas Turbine Power Plant (Mar. 2010):
 - Plant module function.
 - Report generator function.
 - Document module function.
 - Work order module function.
 - Store module function.
 - Preventive maintenance module function.
 - Purchasing module function.
 - System administrator function.

CHRONOLOGICAL EXPERIENCE RECORD

- Project** : Nubaria Power Station:
- Consists of 2 Modules (2x750MW) Combined Cycle, each module consists of:
 - Two Gas Turbines (2x250MW) Model V94.3A Heavy Duty (from Siemens Company Germany).
 - Two Heat Recovery Steam Generators (HRSG) (from Alstom Company France).
 - One Steam Turbine 250MW (from Mitsubishi Co. Japan).
 - The switchyard:
 - 6 Main transformer 500/16.5KV.
 - 4 Tie transformer 500/220KV.
 - 8 Feeders 220KV.
- Job title** : Electrical Engineer
- Job Description** :
- Medium voltage:
Corrective & preventive maintenance for the following:
 - Medium voltage 6.3KV switchgear with 4 incoming 6.3/0.4KV dry transformers.
 - Motors control center (MCC).
 - Local distribution panels.
 - Low voltage induction motor, Medium voltage induction motors.
 - Emergency diesel generators.
 - Elevators.
 - Air compressors.
 - Power transformers.
 - Measuring VT & CT.
 - Dc system (chargers & batteries).
 - UPS system.
 - Distribution DC system.
 - Lighting & earthing system.
 - Plant grounding.
 - Electric loop wiring test.
 - Insulation resistance test for all types of cables, motors & bus ducts with high DC voltage.
 - Testing for motors (rotation direction, earthing, winding, insulation resistance...etc.).
 - Generator Gas Turbine & steam Turbine:
 - Generator auxiliary system.
 - Generator design & structure and visual check in inside generator.
 - Maintenance for generator and trouble shooting.
 - Maintenance for generator auxiliary system.
 - Operation for generator and generator auxiliary system.
 - Minor inspection for gas turbine (Stator & Rotor):
Stator:
 - ❖ Measure insulation resistances of stator winding.
 - ❖ Check stator winding condition (visual) (TE&EE).
 - ❖ Check of flexible strips.Rotor:
 - ❖ Check for true running.
 - ❖ Check rotor end winding area.
 - ❖ Measure insulation resistances of rotor winding.

- ❖ Voltage drop test on slip ring supply lead.
- ❖ Check rotor wedges and retaining rings (visual).
- Cooler:
 - ❖ Check cooling water inlet and outlet pipes.
 - ❖ Check vent pipes.
 - ❖ Check drain pipes.
 - ❖ Check mounting of all coolers.
 - ❖ Check condition and performance of temperature measuring device.
- Major inspection for gas turbine (Stator & Rotor):
 - Stator:
 - ❖ Measure insulation resistances of stator winding.
 - ❖ Check stator winding condition (visual) (TE&EE).
 - ❖ Check of flexible strips.
 - ❖ D.c over potential test.
 - ❖ A.c high voltage test.
 - ❖ Partial discharge test.
 - ❖ Dissipation factor $\tan \delta$ test.
 - Rotor:
 - ❖ Check for true running.
 - ❖ Check rotor end winding area.
 - ❖ Measure insulation resistances of rotor winding.
 - ❖ Voltage drop test on slip ring supply lead.
 - ❖ Check rotor wedges and retaining rings (visual).
 - ❖ Winding resistance test.
 - ❖ Winding impedance test.
- Cooler:
 - ❖ Check cooling water inlet and outlet pipes.
 - ❖ Check vent pipes.
 - ❖ Check drain pipes.
 - ❖ Check mounting of all coolers.
 - ❖ Check condition and performance of temperature measuring device.
- Excitation system (Steam turbine):
 - Automatic voltage regulator (AVR).
 - Excitation rectifier.
 - Excitation transformer of steam turbine generator 15KV/600 v.
 - Excitation field circuit breaker.
 - Auto & Manual excitation control.
 - Excitation commissioning and start-up.
 - Excitation system maintenance and trouble shooting.
 - Thyristor control excitation.
- Static frequency converter (SFC) (D2&D4):
 - Machine control converter (MCC).
 - Line control converter (LCC).
 - Visual check of condition.
 - Check operator functions from central control room.
 - Analysis of alarms and alarm report.
 - Check of all screw terminals.
 - Check electronics cabinet installed with voltage regulator equipment.
 - Check power supply including incoming diode dust filter flow

- indicator.
- Fixing the clamp of circuit breaker.
- Starting transformer of gas turbine generator 6.3KV/1.8KV.
- Static excitation equipments (SEE) (D2&D4):
 - Visual check of condition.
 - Analysis of alarms and alarm report.
 - Check operator functions from central control room.
 - Check electronics cabinet installed with voltage regulator equipment.
 - Check power supply including incoming diode dust filter flow indicator.
 - Fixing the clamp of circuit breaker.
 - Automatic voltage regulator (AVR).
 - Excitation field circuit breaker.
 - Auto & Manual excitation control.
 - Excitation commissioning and start-up.
 - Excitation system maintenance and trouble shooting.
 - Thyristor control excitation.
 - Excitation rectifier.
 - Excitation transformer of gas turbine generator 6.3KV/720 v.

Project : Nubaria Power Station
Job title : Electrical Project Constructions Engineer
Job Description : Approving designs & submittals, site acceptance tests, commissioning and start-up for: Combustion Turbine Generator (GE).