

Holds a B. Sc. in Electrical Power & Machines Engineering and has about 8 years experience, mainly in maintenance.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 10/01/1977
Gender : Male
Marital Status : Married
Residence : El-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, Nubaria, Mar. 2008:
 - Introduction to the plant.
 - Electrical and I&C part.
 - Gas turbine part.
- : Operation and maintenance of HRSG, Nubaria, Mar./Apr. 2008.
- : Operation and maintenance (training) of switchyard 500KV & 220KV, Nubaria, Apr. 2008.
- : Amplissima user training program, 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:
- 2x750MW Combined Cycle, consists of 2 modules, each module consists of 2 Gas Turbines (2x250MW) Model V94.3A Heavy Duty (from Siemens Company, Germany) & 2 Heat Recovery Steam Generators (HRSG - from Alstom Company, France) & 1 Steam Turbine 250MW (from Mitsubishi Company, Japan).
 - The switchyard:
 - 6 Main transformers 500/16.5KV
 - 4 Tie transformers 500/220KV
 - 8 Feeders 220KV
- Job title** : Electrical Maintenance 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 troubleshooting.
 - 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/600V.
 - Excitation field circuit breaker.
 - Auto & Manual excitation control.
 - Excitation commissioning and start-up.
 - Excitation system maintenance and troubleshooting.
 - Thyristor control excitation.
- Static Frequency Converter (SFC):
 - 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):
 - 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 troubleshooting.
 - Thyristor control excitation.
 - Excitation rectifier.
 - Excitation transformer of gas turbine generator 6.3KV/720V.

- Project** : Nubaria Power Station:
- Two GE gas turbines (2x250MW)
 - Two horizontal STF HRSG
 - Turbine (HP, IP, LP) Alstom STG 250MW
- Job title** : Electrical Project Constructions Engineer / Training Engineer
- Job Description** :
- Approving designs & submittals.
 - Site acceptance tests.
 - Commissioning and start-up for Combustion Turbine Generator (GE).
 - Delivering training courses for students of engineering colleges and new Engineers at Nubaria Power Station.