101150-ELE-16CMO-E-2004
Senior Electrical Engineer

Holds a B. Sc. in Electrical Power & Machines Engineering and has over 13 years hands-on experience working in maintenance, operation, commissioning and start-up.

PERSONAL DATA

Nationality	:	Egyptian
Birth Date	:	16/05/1980
Gender	:	Male
Marital Status	:	Married
Residence	:	Tanta

EDUCATION

: B. Sc. in Electrical Power & Machines Engineering, Mansoura University, 2004

LANGUAGES

Arabic	:	Native Language
English	:	Good

COMPUTER SKILLS

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

: PCFLOW, ORCAD, AUTOCAD, PSCAD and MATLAB

TRAINING COURSES AND CERTIFICATIONS

: Project Management Diploma (2017).

: Project Management Consultant (2017).

: Training course for Gas turbine Component and Operation (Siemens CTG x 250MW type V94.3A), Middle Delta Electricity Production Company, Nubaria (Mar. 2008).

: Training course for Steam turbine Component and Operation (Mitsubishi 250MW HP, IP, LP), Middle Delta Electricity Production Company, Nubaria (Mar. 2008).

: Steam turbine on-shore training for Nubaria Power Station I & II 2x750MW combined cycle project under direction of Mitsubishi Heavy Industries Ltd., Nubaria (Apr. 2008).

: Trained on the course in ATMEL Microcontrollers.

CHRONOLOGICAL EXPERIENCE RECORD

Dates : From 2017 till now
Employer : Middle Delta Electricity Production Company (MDEPC)
Project : Nubaria Combined Cycle (3x750MW) Power Station
Job title : Shift in Charge CCR Operation Maintenance Engineer
Job Description : Lead the engineers and technical groups to operate 4 Combustion Turbine Generator (Siemens), with 2 combined Steam Turbine Generator (Mitsubishi) and 2 HRSG boilers and all related equipment.

Dates : From Nov. 2012 till 2017
Employer : EHAF CONSULTING ENGINEERS (KSA)
Projects :

- Al-Talah Garden 3 - King Abdullah Economic City, KSA (MV cables and substations): Al Talah Gardens 3 is an integrated residential compound developed by Emaar and The Economic City (EEC) in King Abdullah Economic City (KAEC). Al Talah Gardens 3 lies within KAEC. It extends on an area of about 616,000 m2. The project will include villas, multi villas, school, mosque, retail area, club house, commercial area, open spaces and other utilities.
- Al-Talah Garden 4 & 5, KSA - King Abdullah Economic City, KSA (MV & LV cables and substations): EMAAR is developing Talah Gardens 4 & 5 as residential compounds with a total land area of about 650,000 square meters each and planning to make them form with Talah Gardens 3 and 5 as a neighborhood. Turner Arabia is the Project Manager and SOM is the City Master Planner and the Economic Cities Authority (ECA) is the prime facilitator for KAEC.
- Al-Talah Garden 1.3, KSA: Al-Talah Garden 1 is a middle income residential compound that shall be built on an area of about 525,000 sqm. Al Talah Garden 1 is divided in three phases; 1.1, 1.2 and 1.3 Phase 1.3 consists of 179 villas that have a total built up area of about 67,226 sqm. The Villas has 4 types each with 2 different facades; Arabic and Spanish. EHAF scope of work covers all the required works within the villa plots which includes geotechnical investigations; civil excavations and backfilling, building structure, boundary walls and fences, architecture and Interior Design works, HVAC, MEP and Electric works, Landscape, water tanks and swimming pools.
- Electrical Installations in High Rise Buildings, KSA: Main Electrical installations/systems Power house & Power supply distribution system & Lighting system & Water supply system & Air conditioning & Air cooling & Lift & Fire & life safety solution & Building Management/Automation System.
- JABAL OMAR Project, KSA (MV & LV cables and substations): The Jabal Omar Development Project is a unique urban re- generation scheme and an integrated development aimed at providing hotel accommodations, commercial/retail spaces, cars parking, public spaces and public amenities to support religious, social and commercial activities to Hajj and Umrah pilgrims during Hajj & Ramadan seasons and other visitors all year round.
- Al Shamla Pharmaceutical Industries (KING ABDULLAH ECONOMIC CITY), KSA (MV & LV cables and substations): Pharmaceutical Factory in King Abdullah Economic City (KAEC) has been designed according to

the city's design standards. Contains of, Main Electrical installations / systems Power house & Power supply distribution system & Lighting system & Water supply system & Air conditioning & Air cooling & Lift & Fire & life safety solution & Building Management/Automation System.

Job title : Senior Electrical Engineer

Job Description :

- Complete knowledge of Protection Devices for Substation, Transformers and Generators (Power Station).
- Work designs and Construction for medium voltage systems and low voltage (transformers, cables, panels and loads) 13.8/.4KV.
- Responsible of all Operation activities which Interests gas turbines and its auxiliaries. Complete knowledge of protection devices for distributors, transformers and generators (power plant).
- Periodical, preventive and emergency maintenance for 500/220KV switchyard, medium voltage 6.3KV, low voltage 400V Switchgears, emergency diesel generators, air compressors, elevators.
- Performed the major inspection of gas turbine (pulling out rotor, changing winding coils, auxiliaries check and repaired).
- Batteries and battery chargers, Voltage Stability Improvement using Static Var Compensator in Power Systems.
- Familiar with soft starters' erection, installation, programming and trouble shooting.
- High, Medium, Low voltage CB's, CT's, VT's, power transformers erection and installing further more maintenance aspects.
- Firefighting systems, sound system trouble shooting, and solar energy production to feed small pump.

Dates : From Nov. 2004 till Nov. 2012

Employer : Middle Delta Electricity Production Company (MDEPC)

Project : Nubaria Combined Cycle (3x750MW) Power Station:

Nubaria Power Station is a new station finished in Oct. 2006, this power station consists of 4 CTGs and 2 STGs with total power 1500MW, in addition to the extension (2 CTGs and 1 STG) 750MW which finished in 2010 to complete the total power of the station to be 2250MW (the biggest Power Station in Egypt).

- 4 CTGs (SIEMENS), 2 CTGs (GE).
- 2 STGs (MITSUBISHI), 1 STG (ALSTOM).
- 500KV Double Bus bar Double Breaker switchyard (HITACHI).
- 220KV Double Bus bar Single Breaker with Bus Coupler switchyard (ABB).
- Two 500KV OHTL.
- Eight 220KV OHTL.
- Four tie transformers 500/220/11KV.
- Commissioning, start-up and operation for 2 combustion turbine generators (250MW) GE 9FA.

Plant description:

- Two modules, each module has:
  - Two Siemens CTG x 250MW type V94.3A.
  - Two Alstom HRSG (HP & IP & LP).
- One Mitsubishi STG (250MW).
- One module consists of two GE combustion gas turbines 250MW type 9FA.

- 220KV switchyard.
- 500KV switchyard.
- Four tie transformers 500 /220/11KV.
- Eight outgoing circuits 220KV.
- Two outgoing circuits 500KV.
- Medium and low switchgears.

Job title : Shift in Charge CCR Operation Maintenance Engineer

Job Description :

- Lead the engineers and technical groups to operate 4 Combustion Turbine Generator (Siemens), with 2 combined Steam Turbine Generator (Mitsubishi) and 2 HRSG boilers and all related equipment.
- Complete knowledge of protection devices for distributors, transformers and generators (Power Plant).
- Follow the dispatch load request.
- Perform periodical test.
- Shut down and start-up the unit.
- Operate the unit in disturbed situation.
- Collect and analyze periodical data.
- Follow and deal with alarms in control room.
- Perform necessary measures before equipment start-up.
- Follow operation specification.
- Analyze equipment efficiency.
- Check availability of stand by equipment.
- Lead in the shift personnel and equipment, for detected defect, issue an accurate and argued work request.
- Responsible of all Operation activities which Interests gas turbines and its auxiliaries.
- Periodical, preventive and emergency maintenance for 500/220KV switchyard, medium voltage 6.3KV, low voltage 400V Switchgears, emergency diesel generators, air compressors, elevators.
- Performed the major inspection of gas turbine (pulling out rotor, changing winding coils, auxiliaries check and repaired).
- Performed all stator and rotor tests and repairs performed in gas turbines generators.
- Overhead cranes control modifying to new soft starters and wireless control.
- Batteries and battery chargers, Voltage Stability Improvement using Static Var Compensator in Power Systems.
- Familiar with soft starters' erection, installation, programming, and trouble shooting.
- High, Medium, Low voltage CB's, CT's, VT's, power transformers erection and installing further more maintenance aspects.
- Fire fighting systems, sound system trouble shooting, and solar energy production to feed small pumps.

Field of experience :

- Over 13 years experience (5 years experience in GCC/KSA) in KAEC in the field of consulting site engineer (MV & LV & Power Plant) & design review electrical and Design Field.
- Take over the design of electrical systems in many huge and normal projects.