

**102482-ELE-15OS-E-1994**  
**Commissioning & Start-up System Engineer**

Holds a B. Sc. in Electrical Engineering and has over 22 years hands-on experience, including 17 years working in operation, commissioning and start-up at Power Plants.

## PERSONAL DATA

Nationality : Egyptian  
Birth Date : 05/12/1970  
Gender : Male  
Marital Status : Married  
Residence : Helwan

## EDUCATION

: B. Sc. in Electrical Engineering, Helwan University, 1994

## LANGUAGES

Arabic : Native Language  
English : Excellent

## COMPUTER SKILLS

: Windows, MS Office, Internet

## TRAINING COURSES AND CERTIFICATIONS

- : MAINTENANCE for the Straightening and cut to length line for steal by FASPAR Company in Italy for TEN DAYS.
- : Industrial measurements.
- : 3 months in El-Kureimat Thermal Power Plant on power plant.
- : 1 month course in El-Kureimat Thermal Power Plant training by U.S Aid.
- : MAINTENANCE AND TROUBLSHOTING FOR EX2000 BY GE IN SITE TRAINING.
- : Gas turbine operation training course for one month, 250MW (MS 9001 FA), Speed Tronic MK VI.
- : Gas turbine operation on-shore training course for six weeks, 250MW (MS 9001 FA), Speed Tronic MK VI.
- : Gas turbine mechanical maint. On-shore training course for one week, 250MW (MS 9001 FA), Speed Tronic MK VI.
- : Gas turbine electrical maint. On-shore training course for one week, 250MW (MS 9001 FA), Speed Tronic MK VI.
- : Gas turbine MARK VI on-shore training course for one week, 250MW (MS 9001 FA), Speed Tronic MK VI.
- : PLC COURSE IN EL-KUREIMAT TRAINING CENTER.

- : Gas turbine operation training course for one month, 750MW (MS 9001 FA), Speed Tronic MK VI 750MW (MS 9001 FA), Speed Tronic MK VI.
- : Gas turbine operation training course for one month, 750MW (MS 9001 FA), Speed Tronic MK VI.

## CHRONOLOGICAL EXPERIENCE RECORD

**Dates** : From Nov. 2010 till Jan. 2017  
**Employer** : SAUDI ELECTRICITY COMPANY  
**Job title** : Commissioning & Start-up System Engineer  
**Job Description** :

- Carried out all commissioning activities as per manufacture recommendation.
- Start-up / shut down sequence checking as per manufacture recommendation.
- Troubleshooting supporting and maintenance program making as vendor recommendations.
- Carry out performance tests.
- Supporting and follow all pre-commissioning activities as hydro tests and chemical cleaning procedures.
- Hanger supports cold setting adjusting and hot setting checking during boiler running.
- Safety valves pop up testing and test gags removing.
- Carry out steam blowing for all steam lines.

**Dates** : From Apr. 2008 till Nov. 2010  
**Employer** : Egyptian Electricity Authority (EEA)  
**Project** : EL-KUREIMAT COMBINED CYCLE 750MW  
(TWO C.T.G 9FA GE GAS TURBINES & TWO HRSG C.M.I & S.T.G TURBINE ALSTOM)  
**Job title** : Senior Commissioning & Process Engineer from construction phase through commissioning phase till start-up testing & operation phase  
**Job Description** :

- Carried out all commissioning activities (cold/hot) of 2 HRSG.
- Checking the components check list.
- Restoration all valves \ components after chemical cleaning.
- Supporting and follow all commissioning activities as hydro tests and chemical cleaning procedures.
- Carry out walk down with all disciplines officially and make punch list items to release commissioning to start.
- Function check for all valves.
- HRSG line up and initial filling and initial firing.
- Carry out all boiler pumps and motors solo run and heat run tests.
- Carry out performance test.
- Start-up / shut down sequence checking as per manufacture instruction.
- Documents making and turn over all packages to owner.
- Assist HRSG operation personal on daily basis to achieve the optimum operating conditions and keep the power station in highest level available level of performance and operating conditions.

**Dates** : From Aug. 2006 till Aug. 2008  
**Employer** : Egyptian Electricity Authority (EEA)

**Project** : EL-KUREIMAT COMBINED CYCLE 750MW

**Job title** : Senior Operator

**Job Description** :

- Following proceeding for system start-up.
- Following proceeding for turbine cold and hot start-up.
- Following proceeding for boiler cold and hot start-up.
- Perform daily and weekly testing for system, Monitor operation condition for the unit during normal operation.
- Monitor turbine condition during normal operation through MARK V system.
- Monitor boiler condition during normal operation though DCS system.
- Following proceeding for unit (turbine, boiler and axillaries) shut down.
- Following proceeding for unit load increasing and decreasing.
- Perform main turbine warm up.
- Operating two units (2x627MW), each unit contain:
  - Boiler (B&W); Forced Draft Fan, Natural circulation of feed water and fuel is natural gas or mazout.
  - Turbine (GE) with control system (Mark V speed tronic).
  - Unit control system with (WDPF DCS).
  - Water treatment plant (Lurgi Bamag).
  - Fire Fighting systems (Foam, FM 200, water....etc.).
  - Air conditioning systems.
  - Pumps, compressor, heat exchanger and fans.
  - Diesel Generator (1280Kw).
  - Transformers: 500KV/23KV - 500KV/220KV - 23KV/6.3KV - 6.3KV/0.38KV.
  - Electric Generator (811, 200 KVA - 50 Hz-stator cooling with deminerlizer water - rotor cooling with hydrogen - 23KV) - electric motors breakers - UPS - batteries.
  - Hydrogen generation plant.
  - Hydraulic systems and lubrication system for different equipments.
  - Isolation of equipments and safety procedure.

**Dates** : From Feb. 2004 till Jul. 2006

**Employer** : Egyptian Electricity Authority (EEA)

**Project** : EL-KUREIMAT COMBINED CYCLE 750MW

**Job title** : Control Room Operator (Desk Operator)

**Job Description** :

- Following proceeding for system start-up.
- Following proceeding for turbine cold and hot start-up.
- Following proceeding for boiler cold and hot start-up.
- Perform daily and weekly testing for system, Monitor operation condition for the unit during normal operation.
- Monitor turbine condition during normal operation through MARK V system.
- Monitor boiler condition during normal operation though DCS system.
- Following proceeding for unit (turbine, boiler and axillaries) shut down.
- Following proceeding for unit load increasing and decreasing.
- Perform main turbine warm up.

**Dates** : From Aug. 2001 till Jan. 2004  
**Employer** : EGYPTIAN OPERATION & MAINTENANCE OF POWER STATIONS COMPANY (OMPC)  
**Project** : El-Kureimat Power Station  
**Job Description** :

- Line up system (turbine & boiler) for:
  - Unit start-up.
  - Unit shut down.
  - Unit normal operation.
- Perform local tests for equipments.
- Priming all systems for operation.
- Monitor equipments during normal operation.
- Isolate equipments for maintenance.
- Isolate equipments for shut down.

**Dates** : From Mar. 2000 till Aug. 2001  
**Project** : El-Kureimat Power Station  
**Job Description** :

- Line up system (turbine & boiler) for:
  - Unit start-up.
  - Unit shut down.
  - Unit normal operation.
- Perform local tests for equipments.
- Priming all systems for operation.
- Monitor equipments during normal operation.
- Isolate equipments for maintenance.
- Isolate equipments for shut down.
- High voltage switching of 500KV & 220KV switchyard.

**Dates** : From Jul. 1997 till Mar. 2000  
**Employer** : Helwan for Metallic Appliances  
**Job Description** : Maintenance Engineer in the following system and equipments: Shears, bending mech., Welding mech., Electric ovens, gas ovens, air compressor, multifactor mech., Boilers. PLC system (Siemens, Allan Bradley) CNC MECH. (Wire cutting Mech. & milling Mech. to making dies) AC drives (Hitachi inverters, clutter hummer inverters used to control conveyor system DC drives (used in slitting and cut to length mech. for steel sheet) DC rectifiers system (used in charging batteries and painting by nickel for steel) Hydraulic and pneumatic control system.

**Dates** : From Jun. 1995 till Jul. 1997  
**Employer** : Air Defense Force  
**Project** : Military Service  
**Job title** : Operation & Maintenance Engineer of rockets system (power and control circuits)

CMMS skills:

Good knowledge of CMMS (Computerized Maintenance Management System) our program in the site is: EMPAC (Enterprise Maintenance Planning Control Program).