

# 101494-MEC-1CGMSq-E-2001

## Senior Commissioning Engineer

Holds B. Sc. and M. Sc. in Mechanical Power Engineering and has over 18 years hands-on experience, including 15 years working in construction, maintenance and commissioning in Power Plants and Combined Cycle Projects.

### PERSONAL DATA

Nationality : Egyptian  
Gender : Male  
Marital Status : Married  
Residence : Beni Suef

### EDUCATION

: B. Sc. in Mechanical Power Engineering, Helwan University, 2001  
: Masters Degree in Mechanical Power Engineering, Cairo University, 2014

### LANGUAGES

Arabic : Native Language  
English : Very Good

### COMPUTER SKILLS

: Windows, MS Office (Word, Excel, Power Point), Internet  
: AutoCAD 2D  
: Solid Works  
: Revit MEP  
: Primavera P6  
: EES (Engineering Equation Solver)  
: MS Project

### TRAINING COURSES AND CERTIFICATIONS

: Condenser, water box vacuum pumps, El-Kureimat Training Center, BOC EDWARD COMPANY (one week).  
: Maintenance & operation for steam turbine, HITACHI Co. – El-Kureimat Training Center (Aug. 2009).  
: Water and waste water treatment systems maintenance, El-Kureimat Training Center, Metito Water Treatment LTD (Mar. 2009).  
: Maintenance for sludge screw pumps, NETZCH – H PUMPS – Germany (Nov. 2007).  
: Dosing pumps, mixers and drivers, solid pumps, chemical resistance pumps, OBL, ANTICO, VARISCO, SAVINO – Italy (Nov. 2007).

: English: TOEFL (500).

## CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Jul. 2018 till Jul. 2019
- Employer** : Shanahan Engineering Company / Worley Parsons, KSA
- Project** : PP14 Combined Cycle Power Project, GE 7FA Gas Turbines (6), KSA
- Job title** : Senior Commissioning Engineer
- Job Description** :
- Performing required testing of rotating equipment and related systems as per procedures.
  - Leading initial commissioning walk down as per approved design drawing for the plant systems and issuing punch lists and categorizing.
  - Checking and apply the turbine alignment procedure and activities as per design.
  - Executing Systems flushing and air blow out as per line-up drawings to ensure cleanliness of the piping.
  - Reviewing the commissioning procedures and commented wherever required.
  - Handling commissioning issues and concerns as per engineering solutions.
  - Reporting to the commissioning lead on site issues and addressing it during daily meeting.
  - Leading commissioning team to implement the pre-commissioning activities.
  - Preparing PTW/LOTO documents for the systems prior start-up.
  - Checking systems actual performance during first actual running as per design and system demands.
  - Coordination with TAs' and subcontractors at site to accelerate the activities.
  - Perform a Testing and Commissioning Plan, Method Statements, Testing and Commissioning Procedures, Testing and Commissioning Reports.
  - Checking and confirmation the Mechanical activities on site has applied as per the specifications, codes and standards and according to the design drawings.
  - Reviewing the test packages and Mechanical Completion Certificates before handing over to the commissioning phase.
  - Complete commissioning activities of RO filtration system, Multimedia filtration system, and chemical dosing / Metering pumps.
  - Testing of the RO process in the water treatment plant.
  - Finish the installation /assembly of RO membrane system, and filtration elements of the plant.
- Dates** : From Aug. 2016 till May 2018
- Employer** : Arabian BEMCO Contracting Co.
- Project** : QASSIM III Combined Cycle PP (GE 7EA), KSA
- Job title** : Senior Commissioning Engineer
- Job Description** :
- Responsible for closing out the mechanical punch lists of the Gas turbine and BOP.

- Managing complete erection team to modify the disputed issues on site wherever required.
- Negotiation with the client representative through site walkdown to ending the punch items.
- Fulfill the client (SEC) requirements through creating ad approach solutions for suspended points.
- Preparing the planning and progress reports of the project to the management to accelerate the critical activities.
- Monitor the contract deviation and minimizing the cost impact by suggesting solutions.
- Completion of the incomplete activities the has been left by construction and commissioning teams.
- Preparing the as-built drawing with the client.
- Handing over the systems to the client until issuance of FCC (Final acceptance Certificate).

**Dates** : From Aug. 2013 till Jul. 2016

**Employer** : Arabian BEMCO Contracting Co.

**Project** : PP10 Combined Cycle PP, KSA

**Job title** : Lead Commissioning HRSG Engineer, TFA

**Job Description** :

- Leading construction team to execute the steam turbine systems erection.
- Alignment and leveling of the steam turbine and generators.
- Installation of the auxiliary systems of the Steam turbine, lube oil, control valves.
- Preparing the construction reports to the managements.
- Performing walk down and line up for the plant systems.
- Erecting of ACC fans and ejector systems, tanks, and condensate pumps.
- Leveling and alignment of the rotary equipment Feed water pumps, LP recirculation pumps, and condensate.
- HRSG modules, drums, stacks installation.
- Applying the standards and approved drawings on site activities.
- Reviewing the design drawing and specification to keep the quality of work.
- Maintaining safety limits of the job through tool box talking, applying risk assessment plan.
- Leading subcontractors and managing the tasks for each.
- Supporting pre-commissioning works, steam blow out, flushing, chemical cleaning process by preparing the temporary jumpers.

**Dates** : From Dec. 2012 till Aug. 2013

**Employer** : Arabian BEMCO Contracting Co.

**Project** : 4800MW Qurrayah Combined Cycle PP, KSA

**Job title** : Lead Commissioning Engineer

**Job Description** :

- Responsible for construction works in one complete block (1 STG - 4 HRSG - BOP).
- Complete installation activities of one D11 steam turbine as per schedule.

- Managing subcontractor to finish the alignment and leveling work of the turbine section (HP/IP/LP).
- Erection of one shell -tube condenser.
- Turbine rotor installation under supervision of GE TA.
- Collecting and taking site measurements of turbine blades and stator.
- Completion of HP/IP seam piping installation.
- Providing full Supporting for chemical cleaning works of the HRSG and STG piping.

**Dates** : From May 2010 till Sep. 2012  
**Employer** : Kharafi National Company – KUWAIT  
**Project** : 2000MW SABBYIA Combined Cycle PP (6 units - GE 9FA), Kuwait  
**Job title** : Senior Commissioning Engineer  
**Job Description** :

- Supervision for gas turbine construction with Auxiliaries.
- GT Alignment & Leveling activities.
- Issuance the construction, manpower, equipment, erection certificates, and punch lists' reports.
- Commissioning and tests for the unit and its auxiliary systems including loop check, function tests, pre-commissioning activities this job include seal oil, lubrication, fuel oil, inlet air, evaporative cooler, hydraulic oil, lifting oil, water injection, atomizing air, and CO2 systems.
- Provided assistance and support to the operating units of the organization.
- Gas turbine start-up tests including over speed protection tests, units tuning, performance tests, fuel change over tests, equipment transfer tests, minimum stable load tests, emissions tests, reliability test..
- Perform gas turbine performance tests to check the guarantee points and design conditions.

**Dates** : From Dec. 2004 till Apr. 2010  
**Employer** : Upper Egypt Electricity Production Company (UEEPC)  
**Project** : El-Kureimat Combined Cycle Power Plant (1500MW) (GE 9FA Gas Turbines)  
**Job title** : Mechanical Engineer  
**Job Description** :

- Supervision of subcontractors to execute the scope of works.
- Perform the inspection on the completed works to hand over to the client.
- Contract management by monitor the deviation on the design.
- Supporting construction team in 750MW module I – El-Kureimat CCGT - 2x250MW gas turbine frame GE MS 9001 FA + 1x250 ST steam turbine (by Alstom).
- Supporting the construction works of 750MW Module II extension of combined cycle plant includes 2x250MW Gas turbine frame SGT 4000 - V94.3 A2 by Siemens + 1x250 ST (by Hitachi Ltd).
- BOP'S and Water & Waste Water Treatment construction and commissioning.
- Hot gas path inspection for gas turbine unit SIEMENS V 94.3A2
- Shift Engineer for 2x250MW gas turbine combustion inspections (GE9FA).

**Dates** : From Mar. 2003 till Dec. 2004  
**Employer** : Ministry of Irrigation – Egypt  
**Job title** : Mechanical Maintenance Engineer (water & pump station)  
**Job Description** :

- Perform periodic and routine maintenance for centrifugal pumps.
- Major and overall maintenance for pumps and auxiliaries.
- Familiar with pumps selection based on the site conditions and design.
- Analysis for pumps system proposal from vendors and companies.

**Dates** : From Jan. 2002 till Mar. 2003  
**Employer** : Egyptian Army  
**Project** : Military Service

**Field of experience** :

- Commissioning of Large-scale Power Plants, of capacities more than 1000MW.
- Gas turbine construction of different capacities and models, GE9FA, GE7FA, SIEMENS V94.3A2.
- Enthusiastic and experienced in overseas travel and Gulf area, Kuwait, Saudi Arabia.
- Maintenance of gas & steam turbine machines during periodic or overall maintenance, CI, HGPI, and O&M.
- HRSG's construction and design drawing reviewing, pre-commissioning.
- Construction of water treatments plants including Demin, waste, and potable water plants.
- Managing the construction process including manpower, subcontractors, equipment, and schedule, to achieve the target within time and high safety and quality.