

**101120-ELE-OS-E-2003**  
**Senior Commissioning & Start-up Engineer**

Holds a B. Sc. in Electrical Power & Machines Engineering and has over 12 years hands-on experience in different type of power plants (Diesel Generators, Thermal Power Plants, Simple and Combined Cycle up to 4000MW).

## PERSONAL DATA

Nationality : Egyptian  
Birth Date : 18/10/1981  
Gender : Male  
Marital Status : Married

## EDUCATION

: B. Sc. in Electrical Power & Machines Engineering, Zagazig University, 2003  
: Preparing M. Sc. in Protection of HV transformers using wavelet program

## LANGUAGES

Arabic : Native Language  
English : Very Good

## COMPUTER SKILLS

: Windows, MS Office, Internet

## TRAINING COURSES AND CERTIFICATIONS

: SIEMENS SICUM PAS training course, Basic Automation of GIS by Sicum Pas Software, Nuernberg – Germany.  
: SIEMENS SPPA T3000 training course, Operation & Monitoring.  
: At Shoubra El-Kheima Power Station Training Center:

- Bechtel training course:
  - Unit operation & maintenance.
  - Basic and site specific course.
- Unit operation (cold and hot start).
- Unit emergency shut down.
- Useful lessons in case of units trip.
- Operation in case of black out.

: Automatic Control "Classic Control & PLC".  
: Hydraulics System.

## CHRONOLOGICAL EXPERIENCE RECORD

**Dates** : From May 2015 till now  
**Employer** : GE Power and Water – EGYPTROL subcontractor  
**Project** : Assiut Power Project 8x125MW Simple Cycle  
**Job title** : Senior Commissioning, Start-up & Operation Engineer  
**Job Description** :

- Commissioning Engineer for GE Gas Turbine Frame 9E which included:
  - Lubrication oil and control oil Flushing.
  - Fuel Gas pipe line air blowing.
  - Fuel oil flushing.
  - Water injection flushing.
  - GT pre-commissioning, commissioning and start-up.
- Lead and coordinate Start-up and Operation activities.
- Ensure that all safety and precautionary requirements and procedures are followed during the commissioning process in line with the commissioning schedule.
- Reporting to the Commissioning Manager.

**Dates** : From Aug. 2013 till Apr. 2015  
**Employer** : [EGYPTROL](#) – Commissioning Subcontractor for SAMSUNG C&T  
**Project** : Qurayyah Independent Power Project (6x750MW) – Combined Cycle, KSA  
**Job title** : Senior Commissioning & Start-up Engineer  
**Job Description** :

- Commissioning Supervisor and Start-up Engineer for Siemens Gas Turbine SGT6-5000F (5) which included Gas blowing, Fuel oil flushing, Water injection flushing, GT air blows, Pre-commissioning start-up testing, Parker Multi-function fuel system, start-up and support for Phase C testing and on to the 30 day Reliability Run.
- Commissioning Supervisor and Start-up Engineer for Siemens Steam Turbine SST6-4000 which included Lube oil flushing, Control oil flushing, Air blows, Actuator testing, Lift oil setting, Pre-start checks, Synchronization up to base load.
- Reporting to the Commissioning Manager.
- Commissioning Supervisor and Start-up Engineer for the BOP compressed Air System consisting of Eight Atlas Copco ZT250-8, 6-60/EHAT air compressors, 8 Extra cooler and Dryers.
- Commissioning Supervisor and Start-up Engineer for the BOP Water and Steam System consisting of CTP, CEP, BFP and DFP.
- Commissioning Supervisor for the twelve HRSG system steam blows, operation of the target inserter and recording of the results and getting sign off by the client.
- Ensure that all safety and precautionary requirements and procedures are followed during the commissioning process in line with the commissioning schedule.
- Produce the Inspection and Test plans for the BOP system and carry out the final testing phase with the client and sign off.
- Prepared and documented the commissioning program required to complete the CCC packages (commissioning clearance certificate) for handing over to the owner.
- Prepare training documentation and deliver the training to the clients' staff in the class room and on site.

- Planning and Supervision of up to twenty technicians to provide 24 hr maintenance of the Gas and steam turbines during the 30 Day reliability run.
- Provide written technical reports including Root Cause Analysis on system failures.
- Prepare method statements, risk assessments and write permits following the commissioning permit to work system.

**Dates** : From Mar. 2012 till May 2013  
**Employer** : [EGYPTROL](#) – ANSALDO CALDAIE Company  
**Project** : Abu Qir Power Plant 2x650MW  
**Job title** : Commissioning & Start-up Engineer  
**Job Description** :

- Commissioning and Start-up Engineer for Ansaldo Boiler (2100 ton/Hr.) Duel fuel Boiler consisting of 2 FDF, 2 GRF, 2 Air preheaters and 30 burners.
- Steam Blowing for Boiler coils and steam pipe line.
- Shift Charge Engineer for ANSALDO CALDAIE Boiler.
- Reporting to the Ansaldo Commissioning and Operation Leader.
- Provide written technical reports including Root Cause Analysis on system failures.
- Ensure that all safety and precautionary requirements are followed during the commissioning and Operation process.

**Dates** : From Jun. 2010 till Feb. 2012  
**Employer** : Cairo Electricity Production Company  
**Project** : Shoubra El-Kheima Power Station:

- Consist of 4 units steam turbine every unit is 315MW and one gas turbine of 36MW.
- Boiler Ansaldo:
  - Maximum construction rate is 1200 ton/hr, Main steam temperature 540 degree centigrade, Throttle pressure 170 kg/ cm<sup>2</sup>, Reheat temporary 540 degree centigrade.
  - Water tube boiler with primary, secondary and tertiary super heaters.
  - Two forced draft fan, tow gas recirculation fan, two-regeneration air heater.
  - 18 duel firing burners (Mazout or natural gas).
- Turbine Westinghouse Tandem compound double exhaust reheat turbine.
- Hydrogen inner cooled generator (20KV).
- Switch yard one and half circuit breaker (220KV).
- 8 bay each bay contains three sf6 circuit breaker.
- Plant auxiliaries (pump house, air compressor, hydrogen generator).
- Emergency gas turbine (36MW) duel fuel (natural gas or solar), generator air cooling, static excitation, axial compressor (18 stage), 8 combustors, 3 stage reaction turbine and starting & emergency diesel.

**Job title** : Shift Charge Engineer  
**Job Description** :

- Supervision of all plant operation on GE Gas Turbine frame 9 with Mark 6E & NEM HRSG & ALSTOM Steam Turbine.
- Supervision of the start-up of the unit after over carrying out maintenance.

- Provide written technical reports including Root Cause Analysis on system failures.
- Organizing and conducting the training of operators on auxiliaries and outside equipment.
- Ensure that all safety and precautionary requirements are followed during the Maintenance and Operation process.

**Dates** : From May 2009 till May 2010  
**Employer** : [EGYPTROL](#) – TOSHIBA Plant Systems  
**Project** : Sidi Krir 750MW Combined Cycle  
**Job title** : Commissioning & Start-up Engineer  
**Job Description** :

- Commissioning and Start-up Team Leader for plant BOP consisting of Circulating water pump, Service water pump, Condensate extraction pump, closed cooling pump, Boiler feed pump and Compressed air system.
- Supervisor for the 2 NEM HRSG system steam blows and recording of the results and getting sign off by the client.
- Reporting to the TOSHIBA Commissioning and Operation Leader.
- Provide written technical reports including Root Cause Analysis on system failures.
- Ensure that all safety and precautionary requirements are followed during the commissioning and Operation process.

**Dates** : From Nov. 2007 till Apr. 2009  
**Employer** : Cairo Electricity Production Company  
**Project** : Shoubra El-Kheima Power Station 4x315MW  
**Job title** : Shift Charge Engineer  
**Job Description** :

- Supervision of all plant operation consisting of 4 Westinghouse Steam Turbine, 4 Ansaldo Boiler 1072 ton/hr and plant BOP.
- Supervision of the start-up of the unit after over carrying out maintenance.
- Supervision of the energizing & de-energizing of high voltage transmission lines from plant switchyard.
- Supervision of the Gas turbine (Fait TTG 36MW) operation and troubleshooting.
- Supervision of the emergency diesel operation.
- Supervision of the weekly and monthly tests for the unit equipment.
- Provide written technical reports including Root Cause Analysis on system failures.
- Organizing and conducting the training of operators on auxiliaries and outside equipment.
- Ensure that all safety and precautionary requirements are followed during the Maintenance and Operation process.

**Dates** : From Jun. 2006 till Oct. 2007  
**Employer** : Cairo Electricity Production Company  
**Project** : Shoubra El-Kheima Power Station  
**Job title** : Shift Assistant Engineer

- Job Description** :
  - Supervisor of Units Operation using SIEMENS SPPA T3000 DCS..
  - Participate in commissioning and start-up of units 2 & 4 after installation from panel control to DCS SIEMENS SPPA T3000 control.
  - Start-up units (Boiler & Turbine), make normal unit shut down and troubleshooting.
  - Logging and recording readings, identifying and reporting defects occurring in any plant in the defined area.
  - Make weekly and monthly tests for the unit equipment.
  - Provide written technical reports including Root Cause Analysis on system failures.
  - Gas turbine operation and troubleshooting.
  - Ensures that all safety and precautionary requirements are followed during the Maintenance and Operation process.
- Dates** : From Oct. 2003 till May 2006
- Employer** : Cairo Electricity Production Company
- Project** : Shoubra El-Kheima Power Station
- Job title** : Operation & Start-up Engineer
- Job Description** :
  - Line up system and equipments, check up and monitoring all unit equipment (local).
  - Check up Boiler, Turbine, Generator, Auxiliaries, Air compressors, pump house and Mazout area.
  - Ensure that all safety and precautionary requirements are followed during the Maintenance and Operation process.
- Field of experience** :
  - GE Gas Turbine frame 9 with Mark 6E 2x250MW.
  - Siemens Gas Turbine SGT6-5000F (5) with SPPA T3000 12x230MW.
  - Siemens Steam Turbine SST6-4000 with SPPA T3000 6x230MW.
  - Westinghouse Steam Turbine 4x315MW.
  - ALSTOM Steam Turbine 250MW.
  - Positions held:
    - Gas Turbine Senior Mechanical Commissioning Engineer.
    - Steam Turbine Senior Mechanical Commissioning Engineer.
    - BOP Senior Mechanical Commissioning Engineer.
    - Shift Charge Engineer (Thermal Power Plant, Simple Cycle & Combined Cycle).