

**102607-MEC-18CMY-E-2002**  
**Mechanical Commissioning Engineer**

Holds a B. Sc. in Mechanical Power Engineering and a High graduation Diploma in power plant. Has about 12 years hands-on experience in construction, maintenance, commissioning and piping/welding.

## PERSONAL DATA

Nationality : Egyptian  
Birth Date : 01/08/1978  
Gender : Male  
Marital Status : Married  
Residence : Gharbia

## EDUCATION

: B. Sc. in Mechanical Power Engineering, Menoufia University, 2002  
: High graduation Diploma in power plant, 2014

## LANGUAGES

Arabic : Native Language  
English : Good

## COMPUTER SKILLS

: Windows, MS Office (Word, Excel, Power Point), Internet  
: AutoCAD 2007

## TRAINING COURSES AND CERTIFICATIONS

- : Basic training on maintenance of GE Gas Turbine Frame (9FA): Introduction to the plant - Gas turbine, Nubaria (Apr./May 2009).
- : Maintenance off-shore training at STF Company for heat recovery steam generator at Magenta, Milano – Italy (for one month).
- : Maintenance on-shore training at STF Company for heat recovery steam generator at Nubaria Power Station (for one month).
- : One week course for fire fighting and industrial safety.
- : Basic training on maintenance of INITEC mechanical equipment (Nubaria), Initec Energia:
  - Solar treatment plant.
  - Waste water treatment system.
  - Fire fighting at HVAC system.
  - Circulating, condensate, pumps.
  - Service, closed cooling pumps.

- : English TOEFL levels.
- : Training of Microsoft Office.
- : Training of programming language Visual Basic.
- : ICDL certificate.

## CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From 2017 till now
- Employer** : Elsewedy PSP & Siemens
- Project** : Beni Suef Power Station (4800MWH) for Modules (10, 20, 30 and 40)
- Job title** : Mechanical Commissioning Engineer
- Job Description** :
- NEM heat recovery steam generator (HRSG) 8 units (Hydro test, chemical cleaning, steam blow, dismantling, inspection, maintenance, testing and maintaining for all valves).
  - SIEMENS steam turbine (400MW) 4 units (Lub. Oil flushing, Dismantling, inspection, maintenance, testing and maintaining for all high pressure valves).
  - Firefighting system & Chemical treatment system (pumps - valves).
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- Dates** : From Oct. 2006 till 2017
- Employer** : Middle Delta Electricity Production Company
- Project** : Nubaria Power Station 750MW Combined Cycle
- Job Description** :
- Mechanical Maintenance Engineer (module III) (from Jan. 2011 till 2017):
    - GE (9FA) Gas turbine (250MW) 2 units.
    - Alstom steam turbine (250MW) 1 unit.
    - STF heat recovery steam generator (HRSG) 2 units.
    - Fire fighting system.
    - Chemical treatment system (pumps - valves).
    - Mechanical equipment and auxiliaries.
  - Mechanical Commissioning Engineer (module III) (from Jan. 2010 till Jan. 2011):
    - Alstom steam turbine 1 unit (250MW).
    - STF Heat Recovery Steam Generator (HRSG) 2 units.
    - Fire fighting system.
    - Chemical treatment system (pumps - valves).
    - Mechanical equipment and auxiliaries.
  - Mechanical Construction Engineer (module III) (from Oct. 2007 till Jan. 2010):
    - GE (General Electric) gas turbine 2 units (250MW for unit).
    - Alstom steam turbine 1 unit (250MW).
    - STF Heat Recovery Steam Generator (HRSG) 2 units.
    - Mechanical equipment and auxiliaries.
  - Mechanical Maintenance Engineer (modules I & II) (from Oct. 2007 till Oct. 2008):
    - Alstom Heat Recovery Steam Generator (HRSG) 4 units.
    - Mechanical equipment and auxiliary.
    - Mitsubishi steam turbine 2 units (250).
    - Fire fighting system (pre-action - wet - deluge - stand pips).
    - Chemical treatment system (pumps - valves).

- Mechanical Commissioning Engineer (modules I & II) (from 2006 till 2007):
  - Alstom heat recovery steam generator (HRSG) 4 units.
  - Mechanical equipment and auxiliary.
  - Mitsubishi steam turbine 2 units (250).
  - Fire fighting system (pre-action - wet - deluge - stand pips).
  - Chemical treatment system (pumps - valves).

**Field of experience :**

- Welding and NDT:
  - Review welding Procedures Specification, Procedures Qualification Record and Welders Qualifications Tests with different welding processes. (SMAW, GMAW and SAW).
  - Witness for the MT, RT, PT, Visual inspection in Pipe lines, turbines parts.
  - Review all Piping Skids Fabrication / erection inspection, post weld heat treatment survey and diagram check, Pneumatic and hydrostatic tests.
- Inspection:
  - Review Inspection Check list for mechanical items (Turbines, Pumps, Valves, etc.).
  - Review Inspection Check list from fire fighting items (piping, pumps, valves).
  - Review QC Plan.
  - Review Inspection Check list from Chemical treatment items (pumps, valves).
  - Review Final Documentation of Test Package for Piping & turbines & HRSG.
  - Punch List Preparation, Test Pack Review & Final Approval.
- Material Inspection:
  - Conduct receiving inspection of all materials, Inspection is based on Project specification and relevant Standards such as ASTM, DIN.
  - Review and verify all the relevant materials Certification to assure its compliance is based on Project specification and applicable Standards.
- Piping:
  - Preparing and reviewing piping specifications in accordance with the general codes (good awareness of Bechtel Standards).
  - Preparing and reviewing Valves datasheets, Pumps, Vendor technical Specifications to assure the compliance with the design and technical requirements.
  - Provide Piping Technical input to P&IDs including piping classes, valve types and special items.
  - Experience in using the following Codes & Standards such as ASME Sec. I, ASME Sec. II, ASME Sec. V, ASME B31.1, ASME B31.3.
- Field experience:
  - Erection, Commissioning, Start-up, Combustion Inspection and Major Inspection Engineer for (GE MS9001FA).
  - Erection, commissioning, start-up and steam blow test for the heat recovery steam generators and all related constructions (it's the most important test for the boiler before starting).
  - Construction supervision on site activates combined cycle power

- plant including: providing redesign solutions for the field Problems or changes.
- Insuring implementation and adherence to project specifications and procedures.
  - Responsibility for monitoring piping construction and fabrication activities insuring quality and taking necessary actions to maintain satisfactory standards.
  - Preparing work packages with all design documentations and method statement for work permits approval.
  - Witnessing all field tests including hydro test and all NDT tests.
  - Reviewing all site work and prepare the punch list for the construction contractor.
- Maintenance experience:
    - Combustion Inspection, Hot Gas Path Inspection and Major Inspection Engineer for (GE MS9001FA).
    - Working in HRSG maintenance (preventive maintenance and overhaul maintenance).
    - Diesel engine maintenance.
    - Heat Exchangers maintenance.
    - Working in steam turbine maintenance (preventive maintenance and overhaul).
    - Maintenance all pumps (centrifugal - Positive displacement).
    - Maintenance all control, motors and manual valves.
    - Maintenance and testing all fire fighting (deluge - pre-action - wet sprinkler).
    - Maintenance all Chemical treatment.
    - Lubrication and predictive maintenance.
    - Journal bearing maintenance.
    - Maintenance of compressor.
    - Waste water treatment maintenance (sump pump - valves - piping).
    - Safety and relief valves maintenance.
    - Alignment of all pumps.
    - Non-destructive testing of welded joints.
  - Main acquired skills:
    - Follow up all site mechanical construction activities for the contract.
    - Reviewing and revise all submittals with the contracts.
    - Attend Mechanical Activity Progress Meetings and make sure that site activities are in line with project schedule.
    - Follow up all mechanical activities of fire fighting system.
    - Review and approve MRR'S (material receiving reports).
    - Review and approve contractors' progress invoices.
    - Attending commissioning activities for GE Gas Turbine, Alstom steam Turbine, Alstom & STF heat recovery steam generator, fire fighting systems, all pumps.
    - Attending Chemical Cleaning and Steam Blow Activities.
    - Receive, inspect and storage the Spare Parts.
    - Minor Inspection working for GE Gas Turbine in Nubaria Power Station.
    - Major Inspection working for Alstom steam Turbine in Nubaria Power Station.