

# 103118-MEC-1GMS-E-1980

## Commissioning & Start-up Manager

Holds a B. Sc. in Electrical Power & Machines Engineering and has over 34 years hands-on experience in commissioning and start-up. Responsibilities include pre-commissioning; commissioning, start-up, maintenance; testing and performance testing, being experienced on all systems and equipment (BOP, simple cycle, combined cycle and single shaft turbo generator set); and working with multi-national crews, including Arabic, English, German, Italian and French.

### PERSONAL DATA

Nationality : Egyptian  
Birth Date : 25/10/1952  
Gender : Male  
Residence : Alexandria

### EDUCATION

: B. Sc. in Electrical Power & Machines Engineering, Helwan University, 1980

### LANGUAGES

Arabic : Native Language  
English : Good

### COMPUTER SKILLS

: Windows, MS Office, Internet

### TRAINING COURSES AND CERTIFICATIONS

: Business Administration Computer programming, American University in Cairo & AMTA.  
: Engineering skills development free studies, ETH Zürich, Switzerland.  
: German language & culture, Göthe Institute in Alexandria.  
: French language & culture, Centre Culturel Français d'Alexandrie.

### CHRONOLOGICAL EXPERIENCE RECORD

**Job Description** : I have my own business in Egypt:  
• Alfa Process, pre-commissioning activities.  
• Al Madinah Al Munawarh for medicine trading and distribution.

**Dates** : From Sep. 2013 till Jul. 2014  
**Employer** : Arabian BEMCO Contracting Co. Ltd, Saudi Arabia

- Projects** : • Qurayyah Combined Cycle Power Plant (3800MW)  
• Riyadh Power Plant No.12 Combined Cycle (2175MW)
- Job title** : Commissioning Manager
- Job Description** : • Distributed Control System.  
• Air Inlet, Bleed Heating and Exhaust Gas system.  
• Combustion Turbine.  
• Combustion Turbine - Control System.  
• Cooling and Sealing Air system.  
• Purge Air system.  
• Heating and Ventilation system.  
• Drains and Vents system.  
• CO2 Fire Protection system.  
• Atomizing Air system.  
• Continuous Emissions Monitoring System.  
• Hazardous Gas Detection system.  
• Compressor Water Wash system.  
• Liquid Fuel system.  
• Fuel Gas system.  
• Steam turbine.  
• Lube Oil System.  
• Hydraulic Fluid System.  
• Steam Turbine - Sealing Steam system.  
• Generator Seal Oil System.  
• Load Commutated Inverter.  
• Generator & Excitation.  
• Generator Cooling and Purge System.  
• (H2/CO2) system.  
• Heat Recovery Steam Generator.  
• Guillotine and diverter damper system.  
• HRSG Blowdown System.  
• Main transformer.  
• Main switch gear.  
• MV and LV switch gears.  
• Steam blow out.
- Dates** : From Oct. 2012 till Aug. 2013
- Employer** : Alghanim International
- Project** : Az Zour South CCGT-2 Combined Cycle Power Plant in Kuwait  
(5 gas turbines (5x165MW) + (2x400MW) steam turbines Alstom supply)
- Job title** : EPC Commissioning Manager
- Job Description** : • One main stream header.  
• 5 HRSG's (Alstom supply).  
• Guillotine and diverter damper system.  
• ABB GIS.  
• ABB main switch gear.  
• MV and LV switch gears.  
• ABB DCS.  
• ABB Main transformer.  
• 2 Alstom unit transformers.

- 2 SPX cooling towers.
- KSB feed water pumps.
- Torishima main cooling pumps.
- Close cycle cooling water system.
- Metito Demin water plant.
- Demi water transfer system.
- Siemens chlorination plant.
- Minimax, fire fighting system.
- Compressed air system.
- Lube oil system.
- Chemical cleaning.
- Steam blow out.

**Dates** : From Feb. 2012 till Oct. 2012

**Employer** : PSP Power System Projects

**Project** : Abu Qir Power Thermal Plant (2x650MW), Alexandria

**Job title** : Commissioning Manager

**Job Description** : Power Block & BOP systems:

- Desalination plant (2 units).
- Make up and supply system.
- Condensate water system.
- Feed water system.
- Closed cycle cooling water system.
- Service water system.
- Heaters vents and drains system.
- Turbine extraction steam system.
- Turbine lube oil (clean and dirty oil) system.
- Water and steam sampling system.
- Compressed Air distribution system.
- Live steam, cold and hot reheat system.
- Service gases distribution system.
- Condenser and water box air removal system.
- Circulating water system.
- Service water System.
- Hydrogen plant system.
- Air compressors system.
- Sump pumps system.
- HFO storage and forwarding system.
- Secondary fuel oil system.
- Reboiler steam system.
- Main Fuel gas system.
- Fuel oil additive system.
- Aux. steam distribution system.
- Boiler blow down system.
- Potable water system.
- Sanitary drainage system.
- Fire fighting system.

**Dates** : From Mar. 2011 till Feb. 2012  
**Employer** : Kharafi National  
**Project** : Al-Shabab Simple Cycle Power Plant (8x125MW)  
**Job title** : Commissioning Manager for a fast track project  
**Job Description** : 8 gas turbine units frame 9E, MK VIe control system, with all subsystems and auxiliaries. MV by Schneider, GIS by Siemens, Transforms by Hyundai. DCS by Yokogawa, RO and demi water plant by Emit.
 

- Lube oil system.
- Fuel gas system.
- Solar oil system.
- Evaporator cooler system.
- Water injection system.
- CO2 fire protection system.
- Fire fighting system.
- HVAC system.
- Cooling water system.
- CEMS system.
- Seal air system.
- Cranking and turning gear system.
- Compressor wash system.
- Excitation system.
- Generator system.
- Step up transformer.
- Aux. transformer.
- Generator and transformer protection systems.
- GIS system.
- MV and LV switchgears.
- RO and Demin water plant.

**Dates** : From Nov. 2009 till Jan. 2011  
**Employer** : INITEC ENERGIA  
**Project** : Cairo West 7 & 8 (2x350MW) Thermal Power Plant  
**Job title** : Commissioning Manager  
**Job Description** : Power Block & BOP systems:
 

- Raw water system.
- Make up and supply system.
- Condensate water system.
- Feed water system.
- Closed cycle cooling water system.
- Service water system.
- Heaters vents and drains system.
- Turbine extraction steam system.
- Main turbine lube oil system.
- Chemical feed system.
- Air distribution system.
- Steam and water analysis system.
- Live steam, cold and hot reheat system.
- Aux. steam system.
- Service gases distribution system.

- Condenser and water box air removal system.
- Circulating water system.
- Service water System.
- Hydrogen plant system.
- Compressed air system.
- Traveling band screen system.
- Trash rack system.
- Sump pumps system.
- HFO storage and forwarding system.
- Secondary fuel oil system.
- Reboiler steam system.
- Main Fuel gas system.
- Fuel oil additive system.
- Aux. steam distribution system.
- Chemical feed system.
- Boiler blow down system.
- Sanitary drainage system.
- Fire fighting system.

<b>Dates</b>	:	From Jul. 2007 till Jun. 2009
<b>Employer</b>	:	General Electric
<b>Project</b>	:	Hadjret En Nouss Power Plant, Algeria (Combined Cycle (3x400MW), Single shaft Frame109FB)
<b>Job title</b>	:	Commissioning Manager
<b>Job Description</b>	:	<ul style="list-style-type: none"> <li>• Commissioning of three combined cycle units; with GE supplied single shaft turbine generator sets, and Doosan HRSG. With all associated subsystems and auxiliaries.</li> <li>• Distributed Control System.</li> <li>• Air Inlet, Bleed Heating and Exhaust Gas system.</li> <li>• Combustion Turbine.</li> <li>• Combustion Turbine - Control System.</li> <li>• Cooling and Sealing Air system.</li> <li>• Purge Air system.</li> <li>• Heating and Ventilation system.</li> <li>• Drains and Vents system.</li> <li>• CO2 Fire Protection system.</li> <li>• Atomizing Air system.</li> <li>• Continuous Emissions Monitoring System.</li> <li>• Hazardous Gas Detection system.</li> <li>• Compressor Water Wash system.</li> <li>• Liquid Fuel system.</li> <li>• Fuel Gas system.</li> <li>• Steam turbine.</li> <li>• Lube Oil System.</li> <li>• Hydraulic Fluid System.</li> <li>• Steam Turbine - Sealing Steam system.</li> <li>• Generator Seal Oil System.</li> <li>• Load Commutated Inverter.</li> <li>• Generator &amp; Excitation.</li> <li>• Generator Cooling and Purge System (H2/CO2) system.</li> </ul>

- Heat Recovery Steam Generator.
- HRSG Blowdown System.
- Duct Burner System.

**Dates** : From Oct. 2005 till Aug. 2006

**Employer** : Alstom Power

**Project** : Shoaiba Power Plant, Stage II, Phase I (3x400MW), KSA

**Job title** : Commissioning Manager, PB & BOP

**Job Description** :

- Make up and supply system.
- Condensate water system.
- Condensate polishing plant.
- Feed water system.
- Closed cycle cooling water system.
- Main and Aux cooling water system.
- Service water system.
- Heaters vents and drains system.
- Turbine extraction steam system.
- Condensate polishing plant.
- Chemical feed system.
- Air distribution system.
- Steam and water analysis system.
- Live steam, cold and hot reheat system.
- Aux. steam system.
- Service gases distribution system.
- Main turbine and generator and its auxiliaries:
- Turbine lubricating system.
- Turbine jacking and turning system.
- Turbine drains system.
- Turbine gland steam sealing system.
- Turbine governing and safety system.
- Turbine control fluid system.
- Generator seal oil system.
- Generator gas system.
- Generator stator cooling system.
- Condenser and water box air removal system.
- Circulating water system.
- Service water System.
- Hydrogen plant system.
- Compressed air system.
- Traveling band screen system.
- Trash rack system.
- Sump pump system.
- Demi water plant.
- Desalination plant.
- HFO-CO storage and forwarding system.
- Fuel oil additive system.
- Aux. steam distribution system.
- Chemical feed system.
- Chlorination plant.

**Dates** : From Oct. 2003 till Oct. 2005  
**Employer** : Alfa Process (my own company), Egypt, Cairo  
(General service company for power plants, factories and gas & oil companies)  
**Job title** : Commissioning Manager  
**Job Description** :

- Cold & Hot function checks for motors, drives and system protection checks.
- System pre-commissioning such system flushing, chemical cleaning and steam & air blowing.
- Optimization of system logic, loop checks and system function check.
- Engineering modification to fulfill system scope of work.
- Instrumentation calibration and setting.
- Low & medium voltage equipment hot start.

**Dates** : From Aug. 2002 till Oct. 2003  
**Employer** : Alstom Power  
**Project** : Shoaiba Power Plant stage I (5x400MW), KSA  
**Job title** : Commissioning Manager  
**Job Description** :

- Manage the commissioning and start-up of the thermal cycle:
  - Make up and supply system.
  - Condensate water system.
  - Feed water system.
  - Closed cycle cooling water system.
  - Main and Aux cooling water system.
  - Service water system.
  - Heaters vents and drains system.
  - Turbine extraction steam system.
  - Condensate polishing plant.
  - Chemical feed system.
  - Air distribution system.
  - Steam and water analysis system.
  - Live steam, cold and hot reheat system.
  - Aux. steam system.
  - Service gases distribution system.
  - Main turbine and generator and its auxiliaries.
  - Turbine lubricating system.
  - Turbine jacking and turning system.
  - Turbine drains system.
  - Turbine gland steam sealing system.
  - Turbine governing and safety system.
  - Turbine control fluid system.
  - Generator seal oil system.
  - Generator gas system.
  - Generator stator cooling system.
  - Condenser and water box air removal system.
- Represent the company by the client in all meetings such as daily start up meeting and weekly construction meeting.
- Commissioning schedule preparation.
- Outage plan preparation.
- Follow preventive maintenance program.
- Acting Consortium-Commissioning Manager.

**Dates** : From Oct. 2001 till Jul. 2002  
**Employer** : Alstom Power  
**Project** : Shoaiba Power Plant stage I (5x400MW), KSA  
**Job title** : Deputy Commissioning Manager  
**Job Description** :
 

- Manage the commissioning and start-up of the thermal cycle:
  - Make up and supply system.
  - Condensate water system.
  - Feed water system.
  - Closed cycle cooling water system.
  - Main and Aux cooling water system.
  - Service water system.
  - Heaters vents and drains system.
  - Turbine extraction steam system.
  - Condensate polishing plant.
  - Chemical feed system.
  - Air distribution system.
  - Steam and water analysis system.
  - Live steam, cold and hot reheat system.
  - Aux. steam system.
  - Service gases distribution system.
  - Main turbine and generator and its auxiliaries.
  - Turbine lubricating system.
  - Turbine jacking and turning system.
  - Turbine drains system.
  - Turbine gland steam sealing system.
  - Turbine governing and safety system.
  - Turbine control fluid system.
  - Generator seal oil system.
  - Generator gas system.
  - Generator stator cooling system.
  - Condenser and water box air removal system.
- Represent the company by the client in all meetings such as daily start up meeting and weekly construction meeting.
- Commissioning schedule preparation.
- Outage plan preparation.
- Follow preventive maintenance program.
- Acting Site Manager.

**Dates** : From Nov. 2000 till Oct. 2001  
**Employer** : Bechtel Egypt  
**Project** : Sidi Krir 3 & 4 (2x360MW) Thermal Power Plant  
**Job title** : Senior Mechanical Start-up Engineer Turbine  
**Job Description** : Commissioning and start-up of main turbine and generator (Alstom Power) and its auxiliaries of unit 3 & 4:
 

- Turbine lubricating system.
- Turbine jacking and turning system.
- Turbine drains system.
- Turbine gland steam sealing system.
- Turbine governing and safety system.
- Turbine control fluid system.

- Generator seal oil system.
- Generator gas system.
- Generator stator cooling system.
- Commissioning and start-up of condenser and water box air removal system.
- Commissioning and start-up of fire protection system.

**Dates** : From Oct. 1998 till Nov. 2000

**Employer** : Techint Cimimontubi

**Project** : Sidi Krir 1 & 2 (2x325MW) Thermal Power Plant

**Job title** : Commissioning Manager

**Job Description** :

- Manage the commissioning and start-up of balance of plant:
  - Make up and supply system.
  - Condensate water system.
  - Feed water system.
  - Closed cycle cooling water system.
  - Circulating water system.
  - Service water system.
  - Heaters vents and drains system.
  - Turbine extraction steam system.
  - Sump pumps system.
  - Hydrogen plant system.
  - Compressed air system.
  - Reboiler system.
  - Desalination plant system.
- Represent the company by the client in all meetings such as daily start-up meeting and weekly construction meeting.
- Commissioning schedule preparation.
- Outage plan preparation.
- Follow preventive maintenance program.
- Coordinate with the other contractors to get the plant up and running.

**Dates** : From Mar. 1998 till Oct. 1998

**Employer** : ABB SAE SADELMI

**Project** : El Aquaba (3x150MW) Thermal Power Plant, Jordan

**Job title** : Lead Mechanical Start-up Engineer

**Job Description** :

- Commissioning and start-up of balance of plant:
  - Make up and supply system.
  - Condensate water system.
  - Feed water system.
  - Closed cycle cooling water system.
  - Circulating water system.
  - Service water system.
  - Heaters vents and drains system.
  - Turbine extraction steam system.
  - Sump pumps system.
  - Hydrogen plant system.
  - Compressed air system.
  - Reboiler system.

- Demi water plant
- Desalination plant system.

**Dates** : From Nov. 1996 till Mar. 1998  
**Employer** : ABB SAE SADELMI  
**Project** : EI-Kureimat (2x600MW) Thermal Power Plant  
**Job title** : Lead Mechanical Start-up Engineer  
**Job Description** :
 

- Manage the commissioning and start-up of balance of plant:
  - Make up and supply system.
  - Condensate water system.
  - Feed water system.
  - Closed cycle cooling water system.
  - Circulating water system.
  - Service water System.
  - Heaters vents and drains system.
  - Turbine extraction steam system.
  - Sump pumps system.
  - Hydrogen plant system.
  - Compressed air system.
  - Reboiler system.
  - Travelling band screen system.
- Represent the company by the client in all meetings such as daily start-up meeting.
- Commissioning schedule preparation.
- Outage plan preparation.
- Follow preventive maintenance program.
- Coordinate with the other contractors to get the plant up and running.

**Dates** : From May 1995 till Aug. 1996  
**Employer** : NOUVA CIMIONTOBI  
**Project** : EI-Arish (2x30MW) Thermal Power Plant  
**Job title** : Lead Mechanical Start-up Engineer  
**Job Description** : Commissioning and start-up of balance of plant:
 

- Make up and supply system.
- Condensate water system.
- Feed water system.
- Closed cycle cooling water system.
- Circulating water system.
- Service water system.
- Heaters vents and drains system.
- Turbine extraction steam system.
- Sump pumps system.
- Hydrogen plant system.
- Compressed air system.
- Reboiler system.
- Demi water plant.
- Desalination plant system.

**Dates** : From Oct. 1993 till May 1995  
**Employer** : NOUVA CIMIMONTUBI & SIEMENS AG  
**Project** : Cairo West 5 & 6 (2x350MW) Thermal Power Plant  
**Job title** : Mechanical Start-up Engineer Turbine and Balance of Plant  
**Job Description** :
 

- Commissioning and start-up of main turbine and generator (SIEMENS) and its auxiliaries of unit 5 & 6:
  - Turbine lubricating system.
  - Turbine jacking and turning system.
  - Turbine drains system.
  - Turbine gland steam sealing system.
  - Turbine governing and safety system.
  - Turbine control fluid system.
  - Generator seal oil system.
  - Generator gas system.
  - Generator stator cooling system.
- Commissioning and start-up of balance of plant:
  - Make up and supply system.
  - Condensate water system.
  - Feed water system.
  - Closed cycle cooling water system.
  - Circulating water system.
  - Service water system.
  - Heaters vents and drains system.
  - Turbine extraction steam system.

**Dates** : From Aug. 1992 till Sep. 1993  
**Employer** : ALSTHOM EXPORT  
**Project** : Damietta 3x125MW Combined Cycle Power Plant  
**Job title** : Mechanical Start-up Engineer  
**Job Description** : Commissioning and start-up of balance of plant:
 

- Make up and supply system.
- Condensate water system.
- Feed water system.
- Closed cycle cooling water system.
- Circulating water system.
- Service water system.
- Heaters vents and drains system.
- Turbine extraction steam system.
- Sump pumps system.
- Hydrogen plant system.
- Compressed air system.
- Demi water plant.

**Dates** : From Jul. 1990 till Aug. 1992  
**Employer** : ALSTHOM EXPORT  
**Project** : Abu Qir 1x330MW Thermal Power Plant  
**Job title** : Mechanical Start-up Engineer  
**Job Description** : Commissioning and start-up of balance of plant:
 

- Make up and supply system.

- Condensate water system.
- Feed water system.
- Closed cycle cooling water system.
- Circulating water system.
- Service water system.
- Heaters vents and drains system.
- Turbine extraction steam system.
- Sump pumps system.
- Hydrogen plant system.
- Compressed air system.
- Demi water plant.

**Dates** : From Dec. 1989 till Jun. 1990  
**Employer** : ANSALDO GIE  
**Project** : Damanhour 1x330MW Thermal Power Plant  
**Job title** : Mechanical Start-up Engineer  
**Job Description** : Commissioning and start-up of balance of plant:

- Make up and supply system.
- Condensate water system.
- Feed water system.
- Closed cycle cooling water system.
- Circulating water system.
- Heaters vents and drains system.
- Turbine extraction steam system.
- Sump pumps system.
- Compressed air system.
- Demi water plant.

**Dates** : From Nov. 1985 till Aug. 1988  
**Employer** : HKS HAHN & KOLB ENGINEERING, Alexandria  
**Job title** : Branch Office Manager  
**Job Description** : This project involved producing 3-years courses for 22 different technical trades using the same type of system as that employed in West Germany. The training for each trade covers the following subject areas:

- Workshop practice.
- Workshop technology.
- Workshop Calculation.
- Technical drawing.
- Material ethnology.
- Technical physics and chemistry.
- Physical science in technology.

**Dates** : From Jul. 1985 till Oct. 1985  
**Employer** : SULZER AG, Winterthur – Switzerland  
**Job title** : Test Engineer  
**Job Description** : Electronic components evaluation department.

**Dates** : From Dec. 1983 till Dec. 1984  
**Employer** : University of Petroleum and Mineral, Research Institute, Saudi Arabia  
**Job title** : Electrical Engineer  
**Job Description** : Performance of high voltage insulators.

**Dates** : From Mar. 1983 till Dec. 1983  
**Project** : Abu Qir Power Station  
**Job title** : Desk Operator

**Field of experience** :

- Prepare a commissioning plan of the project and implement this plan throughout the entire project life.
- Assist in the recruitment mobilization of commissioning personnel, as well as with the orientation and training.
- Prepare and follow up the mobilization plan of vendors' rep and short term TA's.
- Prepare the commissioning spare parts lists of all systems.
- Operate in co-ordination with the Construction Manager and Planner Manager for specific topic, such as planning, involving high level of expertise.
- Prepare a commissioning schedule and adapt it to comply with construction plan modification as required.
- Provide support with procedures and other documentation as required.
- Review the available pre-commissioning, commissioning and start-up manuals and updated them as required
- Lead preparation of commissioning procedures and methods. Present case and method to client.
- Update required operating procedures and check lists.
- Prepare the plan of the day; and follow up the daily activities.
- Assist in transfer of project emphasis to 'system priorities' in a timely manner
- Assist in the orientation of the commissioning personnel in system priorities and Company best practice methodology.
- Participate to project review meetings.
- Prepare a schedule for the contractual tests, and follow up these tests.
- Prepare all the necessary management reports. And provide feedback to the Head office concerning problems arising and the foreseen solutions.
- Review the Turn Over Packages.