101149-MEC-1GOSY-E-1987
Commissioning, Start-up & Operation Engineer

Holds a B. Sc. in Mechanical Power Engineering and has about 30 years hands-on experience working in operation, commissioning and start-up at several Power Plants.

PERSONAL DATA

Nationality	:	Egyptian
Gender	:	Male
Marital Status	:	Married
Residence	:	Menoufia

EDUCATION

: B. Sc. in Mechanical Power Engineering, Menoufia University

LANGUAGES

Arabic	:	Native Language
English	:	Good

COMPUTER SKILLS

: Windows, MS Office, Internet

TRAINING COURSES AND CERTIFICATIONS

: Four weeks Gas turbine and Generator Operation program (GE), New York City – USA.
: Basics training course in Net DAHS, New York – USA.
: Training Generator operation, New York City – USA.
: Training in Gas turbine and Generator operation, Mitsubishi Heavy Industries in Takasago City – Japan.
: Training course in HITACHI steam turbine generator and condenser system.
: Training course in KSB pump sets install.
: Training course in operation and maintenance of Taprogge Condenser tube cleaning system and Debris filter (Alstom Company).
: Training course in DC & UPS system - operation and maintenance, CEGLEC COMPANY.
: Training course in Economic for Gas turbine and combined cycle.

CHRONOLOGICAL EXPERIENCE RECORD

Dates : From Jan. 2013 till 2016
Employer : General Electric Company through TRANS GLOBAL COMPANY
Project : Giza North Power Station
(It consists of three modules 2250MW combined cycle (6 gas turbines each unit 250MW) Frame 9FA, Control System is MARK VI, 3 steam turbines each one 250MW Ansaldo Italy.)
Job title : Commissioning, Start-up & Operation Supervisor Engineer

Dates : From Jan. 2012 till Sep. 2012
Project : Cairo North Power Station
(Combined Cycle phase II 750MW, two gas turbiness GE 250MW for each one frame 9FA, GAS turbine MARK VI control (simplicity - toolbox), ALSTOM Company one unit 250MW steam turbine, two heat recovery steam generators NEM Company, Bop Mark VIe control.)
Job title : Operation Manager

Dates : From Jul. 2011 till Dec. 2011
Employer : General Electric Company through Granite Service International Co.
Job Description :
- Operation Supervisor Engineer in El-Shabab Power Plant (8 gas turbines) simple cycle each unit 115MW frame 9E control MARK VIe.
- After that transfer to Damietta Power Plant (4 gas turbines simple cycle each one 115MW, frame 9E control Mark Vie).

Dates : From 2010 till 2011
Project : Cairo North Power Station Combined Cycle phase II (750MW):
- General Electric Company (GE) Frame 9FA (2 units 250MW) gas turbine.
- Alstom Company (1 unit 250MW) steam turbine.
- NEM Heat Recovery Steam Generator (HRSG).
- Main steam pressure 120 bar.
- Main steam temperature 568 °C.
- Gas turbine Mark VI control (simplicity-toolbox).
- Bop Mark VIe control.
- Isolation mechanical and electrial equipment (log out, tag out).
- Medium volt 6.3KV, low voltage 400.

Job title : Operation Manager
Job Description : Supervise 10 Operation Engineers and 10 Technicians for operation and monitoring:
- Installation progress access flow up.
- Notes and reports.
- Costumer and contractor meeting.
- Safety procedures and plant reliability.
- Start-up procedures.
- Safe start-up for equipment and for people.
- Safe shutdown for equipment and for people.
- Prepare isolation procedure for equipment maintenance.

- Safety tags for equipment maintenance.
- Combined Cycle operation training for new engineers.

Dates : From Sep. 2007 till Aug. 2009
Employer : General Electric Company through Granite Service International Co.
Project : Ras Abou Fontas Project – QATAR
Job title : Operation Supervisor Engineer / Start-up & Commissioning Engineer
Job Description :

- 3 units GENERAL ELECTRIC each unit 250MW Frame 9FA control system Mark VI.
- Power plant auxiliary including hydrogen generation cell, oil bath Heater fuel gas, evaporation cooling system, electrical switch gear feeder and transformers, CCW system, black start diesel generator.
- Make charging for three generators with H2 during commissioning and also make H2 scavenging from the generator following GE procedure.
- Make water wash many times preparing for performance test for the three units.
- Work in the facility reliability test as Operation Supervisor maintaining all three units in the same time at Base load with evaporation cooling system in service continuous for one month without trip.
- Make work permit and lotto required.
- Working in the performance Heater modification for lifting the expansion tank (9 m) above the ground to increase the pump flow and responsible for:
  - Make oil drain from the system.
  - Filling system again by new oil.
  - Make boiling for new oil to release the moisture and any gases.
  - Also make all processing to the system and put the system in service again this is repeated for the three performance heater.
- Working in warranty claim closure.
- Working in punch list clearance.
- After the machine handed over supporting operation with QEWC team.

Dates : From 2003 till Sep. 2007
Employer : Cairo Electricity Production Company (CEPC)
Project : Cairo North Power Station (combined cycle 1500MW, two modules, each one 750MW):

The first module consists of:

- 2x250MW gas turbine:
  - Manufactured by General Electric (GE model frame 9FA).
  - Control system (Mark VI).
- 1x250MW steam turbine (Alstom Company).
- Two Heat Recovery Steam Generators (HRSG):
  - Manufactured by dutch NEM.
  - Control system Mark VIe.
- Steam turbine control system Mark VI.
- Three GAS Compressors screw type, two stages, compression ratio 28:42.

The second module consists of:

- 2x250MW Gas turbine:
  - Manufactured by Mitsubishi Heavy Industries (MODEL: M701F).
  - CONTROL system DIASYS.
- 1x250MW Steam turbine:
  - Manufactured by HITACHI Japan.
  - Control system Mark VI.
- Two Heat Recovery Steam Generators (HRSG):
  - Manufactured by dutch NEM.
  - Capacity 800 T/H.
  - Main steam pressure 120 bar.
  - Main steam temperature 568 °C.
- Distributed control system (DCS) by Foxboro invences (ITALY).
- 3 Gas Compressors (screw type, two stages, compression ratio 28/42 bar).

Job title : Operation Supervisor Engineer / Start-up & Commissioning Engineer

Job Description :

- Safe and reliable operation of the hole plant (start-up, continuous operation & shutdown HRSG, steam turbine, Gas turbine, unit auxiliaries, station common auxiliaries, General control room (TCR), electrical control room (GIS), switchgear & other facilities.
- Fault diagnostic and taking necessary action to restore station safe running condition.
- Co-ordination with national load dispatch center (control center for total station loading unit. Loading and unloading and maneuvering to successfully meet national grid load requirements, etc.

Dates : From 1995 till 2003

Project : Cairo South Combined Cycle Power Station (750MW):

Consists of:

- 1x115MW Gas turbine Frame 9 1E:
  - Manufactured by General Electric (GE model: MS 9001E).
  - Control system Mark IV.
- 1x60MW steam turbine:
  - Manufactured by GE.
  - Control system Mark V.
- One HRSG manufactured by VOGT Power.
- DCS by Westinghouse.
- 3x115MW Gas turbine (Frame 9 1E), simple cycle:
  - Manufactured by GE.
  - Control system Mark IV.

Job title : Shift Charge Engineer

Job Description : The project management program covered the following topics:

- GT plant arrangement.
- System description explanation of P&ID.
- Operation guide line and safety feature.
- Spin operation and turbine operation.
- Main feature of gas turbine auxiliaries.
- Excitation system operation.
- Turbine generator auxiliary system.
- Power control center package.
- Switchgear operation.

- Explanation of GT control system.
- GT troubleshooting start-up and shutdown procedures.

Dates : From 1987 till 1995

Employer : Cairo Electricity Production Company (CEPC)

Project : Helwan Gas Turbine Power Station (130MW):

Consists of:

- 5x26MW Gas turbines (Frame 5), simple cycle:
  - Manufactured by General electric (GE model series: MS 5001).
  - Control system Mark II.
- Three gas compressors (reciprocating type, 2 stages, compression ratio 10.2).

Job title : Shift Charge Engineer