

101602-MEC-OS-E-2002
Mechanical Operation & Commissioning Engineer

Holds a B. Sc. in Mechanical Power Engineering and has over 9 years hands-on experience in operation, commissioning and start-up of combined cycle power plants.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 01/01/1979
Marital Status : Married

EDUCATION

: B. Sc. in Mechanical Power Engineering, Alexandria University, 2002

LANGUAGES

Arabic : Native Language
English : Very Good

COMPUTER SKILLS

: Windows, MS Office, Internet

TRAINING COURSES AND CERTIFICATIONS

- : On-shore operation training of GE steam turbine D – 11 models by G.E. Instructors in Qurayyah Combined Cycle Power Plant (QCCPP) – Saudi Electricity Company (SEC) in KSA, 2012.
- : On-shore operation training of DOOSAN HRSG in Qurayyah Combined Cycle Power Plant (QCCPP) – Saudi Electricity Company (SEC) in KSA, 2012.
- : Another on-shore operation training on QCCPP on BOP systems such as:
 - Hydrogen Generator Plant by TYLEDYNE U.S.A.
 - Gas Treatment Plant by PETRO GAS.
 - Air Compressors by ATLAS COP Co.
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 - Fire Protection System by SAS.
- : On-shore training of MHI steam turbine 255.3MW (TC2F – 35.4”) at Nubaria Combined Cycle Power Plant - MDEPCo., by MHI, covered the following:
Steam Turbine Gland Sealing and Vacuum up Test - Steam Turbine Rolling And Speed Up Test - By Pass Operation - No Load Operation - Part Load & Full Load Operation - 25%, 50%, 75% and 100% Load Rejection Test - Normal Operation & Troubleshooting.

- : Off-shore training of MHI steam turbine 255.3MW (TC2F – 35.4") in Japan - Nagasaki City by Mitsubishi Heavy Industries LTD Nagasaki Shipyard & Machinery Works (Aug./Sep. 2005), covered the following:
General description of steam turbines - Surface condenser - Gland steam condenser and fan - Lube oil cooler - Condenser vacuum pump - Lube cleaning system - Debris filter - Condenser water vacuum pump - Turbine governing system - DEH control - ATS Control - Turbine Inter lock - Turbine Control System Operation system - Auxiliary Equipment control - MHI Factories tours.
- : Off-shore training of MHI steam turbine Generator (H2 cooled type) in Japan – Takasago and Kobe Cities by Mitsubishi Electric Corporation Energy Systems Center (MELCo.), Sep. 2005, and covered the following:
Generator Design and Structure - Generator Auxiliary Systems - Operation and Maintenance for Generator & Generator Auxiliary Systems - Generator Excitation Systems - Generator Protection & Control Systems - MELCO Factory tours.
- : On-shore operation training of MHI steam turbine Generator (H2 cooled type) at Nubaria Combined Cycle Power Plant – Middle Delta Electricity Production Company (MDEPCo.), by MELCo.
- : On-shore training of Siemens Gas Turbine V.94.3A at Nubaria Combined Cycle Power Plant - MDEPCo., by Siemens PG (Apr. 2004), covered the following: Introduction to the plant - Electrical and I&C part - Gas Turbine - Plant operation.
- : Another on-shore operation trainings at Nubaria Combined Cycle Power Plant – MDEPCo. such as:
 - Service & Instrument Air Compressors by Initec Energia Company.
 - Service, Raw and Closed Cooling Pumps by KSB Company.
- : On-shore training of operation and maintenance of combined cycles on WDEPCo. Training Center in Damanhour (Feb./Mar. 2004).

CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Apr. 2009 till now
- Employer** : Saudi Electricity Company (SEC)
- Project** : Qurayyah Combined Cycle Power Plant (QCCPP)
(15x171MW GE units - MS7001FA - (DLN2.6), MARK VI - H2-cooled generators & auxiliaries)
- Job Description** :
 - Shift in Charge Engineer (from Nov. 2010 till now):
 - Operating & maintaining the power plant with the maximum availability. Observing job progresses, hence reporting to concerned regarding conditions noted and actions taken Implementing preventative and corrective maintenance procedures, troubleshooting actual and potential problems areas and implementing viable solutions. Raising defects for equipment & doing isolation according to the work order permit.
 - This period includes five months from Sep. 2011 till Feb. 2012 as a Training Instructor for SEC operators for GT & BOP systems on Simulator.

- Maintenance Coordinator & Work Permit Issuer (from May 2010 till Nov. 2010):
 - Responsible for issuing all work permits & coordinating maintenance work for SEC in blocks – 1, 2 and 3 which are already handled over to our company SEC.
 - Responsible for issuing all work permits & coordinating maintenance and construction work for GE and BEMCO with SEC for this certain time.
- Start-up & Commissioning Engineer (from Apr. 2009 till May 2010):
 - Start-up & commissioning work in QCCPP with LAHMEIER Consultant as Representative for SEC side.
 - This start-up & commissioning work was covering the GE Gas turbine model MS7001FA & BOP (including: gas treatment plant by PETROGAS, Fuel gas compressors by CAMERON, Hydrogen Generation Plant by TELEDYNE USA, Black start diesel generator by CATERPILLAR, Liquid fuel system, Fire protection system, Lube oil cleaning system, etc.

Dates : From Jun. 2004 till Mar. 2009

Employer : Egyptian Electricity Holding Co. – Middle Delta Electricity Production Co.

Project : Nubaria I Combined Cycle Power Plant (2x750MW):
Two blocks, each block consists of:

- Two Siemens combustion gas turbines 250MW model V94.3A
- Two Alstom horizontal type Heat Recovery Steam Generators
- One Mitsubishi steam turbine 250MW type TC2F HP, IP & LP steam lines

Job Description :

- Shift in Charge Engineer (from Feb. 2008 till Mar. 2009):
 - Also I did training for our company fresh engineers and technicians and made many training notes and as built operation procedures and troubleshooting specially in steam turbines.
- Operation Engineer (from Oct. 2005 till Jan. 2008):
 - Responsible for steam turbine MHI 255MW first start-up and operation and perform all start-up tests (as: Steam Turbine Gland Sealing and Vacuum up Test - Steam Turbine Rolling and Speed Up Test - By Pass Operation - No Load Operation - Part Load & Full Load Operation - 25%, 50%, 75% and 100% Load Rejection Test - Normal Operation & Trouble Shooting) and continuous operation and with maximum availability work and troubleshooting.
 - Basic operation of Siemens Gas Turbine (4x255MW) type V94.3A.
 - Basic operation of Alstom horizontal type Heat Recovery Steam Generator and steam blow.
- Construction, Commissioning & Start-up Engineer (from Jun. 2004 till Sep. 2005):
 - Responsible for reviewing all technical submittals and inspection all valves and pumps as THERMOMECHANICA pumps and KSB pumps.
 - Attend and witness (Owner Representative) for SIEMENS Gas Turbine V93.4 installation and commissioning.
 - Attend and witness (Owner Representative) for MHI Steam turbine TC2F installation and commissioning.

Dates : From Jun. 2003 till Jun. 2004
Employer : West Delta Electricity Production Company (WDEPCo.)
Project : Damanhour CCPP
Job title : Operation Engineer
Job Description :

- Responsible for operation of GE gas turbine (4x25MW).
- Responsible for operation of NEM vertical HRSG (4).