

100116-MEC-CMOS-E-2002

Senior Site Mechanical Engineer

Holds a B. Sc. in Mechanical Power Engineering and has about 17 years hands-on experience working in erection, maintenance, operation, commissioning and start-up at several Power Plants.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 15/10/1980
Gender : Male
Marital Status : Married
Residence : Mahmoudia

EDUCATION

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

LANGUAGES

Arabic : Native Language
English : Excellent

COMPUTER SKILLS

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

TRAINING COURSES AND CERTIFICATIONS

- : Mitsubishi Heavy Industries Takasago Machinery Works in Japan – Off-site operation training including maintenance (Jun./Jul. 2008):
 - Main feature of gas turbine.
 - Operation guide line, safety feature and maintenance procedure.
 - Main feature of GT auxiliaries.
 - GT electrical & control package.
 - Operation training by simulator.
 - Maintenance philosophy & concept.
 - Compressor performance degradation monitoring and countermeasure.
- : Mitsubishi Electric Corporation Energy Systems Center in Japan – Off-site operation training including maintenance (Jul. 2008):
 - Generator protection system design.
 - Generator protection relay operation.
 - Generator design and structure.
 - Generator operation and maintenance.

- Generator auxiliary's explanation & maintenance.
- Auxiliary motor and equipment operation and maintenance.
- Excitation system design & operation.
- : East Delta Company for Electricity Production in Abu Qir (Feb. 2005):
 - Operation and maintenance gas turbine.
 - Operation and maintenance combined cycle.
- : East Delta Company for Electricity Production in Abu Qir (Apr. 2007):
 - Types of pumps.
 - Operation and maintenance different type of pumps.
- : Mitsubishi Heavy Industries in El-Atf site – On-site operation training including maintenance (Mar./Apr. 2009):
 - Main feature of gas turbine (MHI701F) and its auxiliaries.
 - Operation and maintenance gas turbine.
- : Mitsubishi Electric corporation energy systems in El-Atf site – On-site operation training including maintenance (May 2009):
 - Generator operation and maintenance.
 - Generator auxiliary's explanation & maintenance.
- : Yokogawa Middle East Training Center – Centum cs3000 R3 fundamental course (DCS).
- : TOSHIBA Plant System & Services Corporation – Horizontal pumps & vertical sump pumps system.
- : TOSHIBA Plant System & Services Corporation – Service gas system.

CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Jan. 2017 till now
- Employer** : Middle Delta Company for Electricity Production
- Projects** : Burullus Power Station 4800MW
- Job title** : Senior Site Mechanical Engineer
- Job Description** :
- Independent consultant mechanical engineering.
 - Design review.
 - Site mechanical construction and commissioning inspections.
 - Boiler erection, pressure test, chemical cleaning and steam blow.
 - BOP, ST, ACC erection, commission.
 - Firefighting systems erection, flushing and test.
 - Tanks erection and test.
 - Follow the progress of the project as per the time schedule.
 - Review of "as built" drawings of the Plant Completion Report prepared by the contractor.
 - Review of the contractor O&M manuals; responsible for the preparation of the punch list.
 - Assist the client recruiting O&M personnel; assisted in organizing; and conducted training of new O&M personnel.
 - TOP walk down and Listed Punch items.
 - ITP inspection, walk downs.

Dates : From Jun. 2015 till Jan. 2017
Employer : Middle Delta Company for Electricity Production
Project : El-Atf Power Plant 750MW
(2 GT Mitsubishi, 2 HRSG NEM and one steam turbine ANSALDO)
Job title : Senior Maintenance Engineer
Job Description :

- Prepare periodic and preventive maintenance schedule.
- Prepare spare parts list.
- GT, ST overhaul.
- HRSG maintenance.
- Pumps maintenance and alignment.
- Water treatment maintenance.
- Valves repair and labeling.

Dates : From Jan. 2015 till Jun. 2015
Employer : [EGYPTROL](http://www.egyptrol.com)
Project : Hurghada Power Plant (6 GE gas turbines LM 6000 (50MW x 6))
Job title : Lead Erection Engineer
Job Description :

- Erection subcontractor from GE.
- Install six Gas turbines with its aux.
- Oil flushing.
- Install connection piping.

Dates : From 2013 till 2015
Employer : K&M Engineering and Consulting LLC, Washington DC, Independent Consultant Services
Project : SAMRA Combined Cycle Power Plant Add-on Project ALSTOM 150MW turbine + 2 HRSG + 1 ACC (SPX), Jordan
Job title : Senior Mechanical Engineer (Consultant Engineer)
Job Description : I was responsible for all site Mechanical work, manage time schedule and site activity my responsibility was included:

- Independent consultant mechanical engineering.
- Design review.
- Site mechanical inspection.
- Aware by erection and welding codes (ASME, AWS, API).
- Boiler erection, pressure test, chemical cleaning and steam blow.
- BOP, ST, ACC erection, commissioning.
- Fire fighting systems erection, flushing and test.
- Tanks erection and test.
- Time schedule, project contract follow.
- Froth flushing, chemical cleaning, steam blow.
- Daily, weekly, monthly report prepared for Site Manager.

Dates : From 2011 till 2013
Employer : DEWA (Dubai Electrical Water Authority)
Project : DUBAI – K Power Station (3 gas turbines SEIMENS + 3 WHRB + 2 aux boiler + 5 Desalination unit + 2 Steam turbines)
Job title : Power Plant Operator

Job Description :

- Auxiliary boilers start-up, shut down.
- Auxiliary boiler protection.
- Operate auxiliary boiler forced draft fan, recirculation fan, feed water system.
- Operation for auxiliary boiler soot blower, fire system and regenerative air.
- Desalination Plant and Hypochlorite Plant.
- WHRB boiler start-up, shut down.
- Analysis, troubleshooting, preparation of contingency plans.
- Power station start-up, shut down.

Dates : From Jun. 2010 till 2011

Employer : [EGYPTROL](#) (Commissioning Sub-contractor for HRSG Contractor (NEM))

Project : Sidi Krir Combined Cycle Power Plant (750MW) 2x2x1

Job title : Commissioning Engineer

Job Description :

- Commissioning and start-up of boilers, and operation and monitoring.
- Maintenance and repair all types of valves.
- Responsible for developing startup and shutdown procedures.
- Communication with Owner and with contractors for improved operation.
- Prepare progress reports on commissioning activities including reasons for delays.
- Responsible for all commissioning activities including hydraulic test, chemical cleaning, and steam blows.
- Check all equipment and alarms status on DCS pages.
- Apply lockout and other safety procedures for equipment under maintenance and operate the plant and equipment in safety condition.
- Report actions taken and problems experienced during shift in the handover logbook.

Dates : From 2008 till May 2010

Employer : Middle Delta Company for Electricity Production

Project : El-Atf Combined Cycle Power Plant (750MW)

Job title : Maintenance Engineer

Job Description :

- Prepare maintenance schedule as per O&M manual.
- Planning for overhauls and prepare required tools.
- Execute all periodic and emergency maintenance.
- Responsible for the review and approval of Contractors schedules for construction.
- Responsible for visual inspection for welding.
- Responsible for supervision and coordination of start-up and commissioning activities, performance tests and certifications.
- Review of "as built" drawings of the Plant Completion Report prepared by the contractor.
- Review of the contractor O&M manuals; responsible for the preparation of the punch list.
- Assist the client recruiting O&M personnel; assisted in organizing; and conducted training of new O&M personnel.
- TOP walk down and Listed Punch items.

Dates : From Oct. 2003 till 2008
Employer : West Delta Company for Electricity Production (WDEPC)
Project : Mahmoudia Combined Cycle Power Plant (300MW)
(8 GT GE + 2 ST GE)
Job title : Operation & Maintenance Engineer
Job Description :

- Prepare maintenance schedule as per O&M manual.
- Planning for overhauls and prepare required tools.
- Execute all periodic and emergency maintenance.
- Operation of gas turbine (GE) and its auxiliaries.
- HRSGs operation and monitoring.
- Combined cycle operation and monitoring, including auxiliaries.
- Switchgear operation and monitoring.
- Manage the combined cycle control team.

Dates : From May 2002 till Oct. 2003
Employer : Behira Company for maintenance heavy machine
Job Description : Performed maintenance on heavy machinery.

Field of experience :

- Significant experience working on gas turbines, steam turbines, Heat Recovery Steam Generators (HRSG), Boilers, ACC, Fire Fighting and Desalination unit.
- Specialized expertise includes mechanical engineering, erection, commissioning and start-up, field inspection, quality control, safety regulations and environmental compliance.
- Participated in all phases of combined cycle project work, including: erection, commissioning, operations and monitoring, maintenance, turnover, schedule and documentation review.