

100729-MEC-CM-E-2002
Mechanical Maintenance Engineer

Holds a B. Sc. in Mechanical Power Engineering and has over 15 years hands-on experience including 13 years working in maintenance and construction at Power Plants.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 25/05/1978
Gender : Male
Marital Status : Married
Residence : El-Behira

EDUCATION

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

LANGUAGES

Arabic : Native Language
English : Good

COMPUTER SKILLS

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

TRAINING COURSES AND CERTIFICATIONS

- : Training course covering GE 9FA Gas Turbines maintenance with GE, held in Nubaria Power Station 250MW (Apr./May 2009).
- : Training course covering Steam Turbines maintenance with ALSTOM Company, held in Mannheim – Germany (Nov./Dec. 2009).
- : Training course covering Steam Turbines maintenance with ALSTOM Company, held in Nubaria Power Station (Nov./Dec. 2009).
- : Training covering steam turbines maintenance in Talkha Power Station (Jan. 2010).
- : Courses at:
 - Alexandria National Iron & Steel Co. S.A.E.
 - Egypt Company for Textile (El-Behira).
 - Co-operation of Petroleum.

CHRONOLOGICAL EXPERIENCE RECORD

Dates : From Mar. 2014 till now
Employer : Middle Delta Electricity Production Co. (MDEPC)

Project : Nubaria Combined Cycle Power Station 750MW
Job title : Mechanical Maintenance Engineer
Job Description :

- Prepare all preventive maintenance programs to turbines.
- Maintain all equipments in good condition according to maintenance programs.
- Prepare all spare parts needed in program maintenance and overhaul maintenance.
- Make all tests on turbines during overhaul maintenance (clearance measurements, alignment).
- Make all tests on turbines after overhaul maintenance (tightness test, vibration test).
- Make combustion inspections for gas turbine GE (9 FA).
- Make major inspections for 2 units gas turbine GE (9 FA).
- Make warranty inspection to ALSTOM steam turbine.

Dates : From Jun. 2012 till Mar. 2014
Employer : HITACHI PLANT TECHNOLOGY
Project : EL-AIN EL-SHOKHNA POWER STATION
Job title : Construction Mechanical Engineer
Job Description :

- Review all installation drawing and installation procedures.
- Check all materials before install to avoid transportation damage.
- Follow up all installation steps before, during and after process.
- Install all condenser parts according to installation procedures (upper shell - lower shell - bypass piping and LP heaters).
- Install all condenser auxiliaries (cond. vacuum pump - ball cleaning system....etc.).
- Make all fit-up tests and QC tests for all condenser parts and make record sheet.
- Follow up all daily activities work in site.
- Install & setting LP heater.
- Install & setting Extraction steam pipe.
- Install & setting al equipments & auxiliaries (lube oil tank, HP & LP bypass hydraulic skid and generator shaft sealing unit).
- Follow up commissioning & start-up for all equipments & machines.
- Make all hydro-test and pneumatic test for all piping systems.
- Making water filling test for 2 condensers.
- Making hydro test for condenser water box.

Dates : From Oct. 2010 till Jun. 2012
Employer : Middle Delta Electricity Production Co. (MDEPC)
Project : Nubaria Combined Cycle Power Station 750MW
Job title : Mechanical Maintenance Engineer
Job Description :

- Prepare all preventive maintenance programs to turbines.
- Maintain all equipments in good condition according to maintenance programs.
- Prepare all spare parts needed in program maintenance and overhaul maintenance.
- Make all tests on turbines during overhaul maintenance (clearance measurements, alignment).

- Make all tests on turbines after overhaul maintenance (tightness test, vibration test).
- Make combustion inspections for gas turbine GE (9 FA).
- Make major inspections for 1 unit gas turbine GE (9 FA).
- Make warranty inspection to ALSTOM steam turbine.

Dates : From Apr. 2006 till Oct. 2010

Employer : Middle Delta Electricity Production Co. (MDEPC)

Project : Nubaria Combined Cycle Power Station 750MW

Job title : Construction Mechanical Engineer

Job Description :

- As Owner Representative Mechanical Engineer responsible for:
 - Reviewing all technical documentations such as data sheets, isometric drawings piping and instrumentation diagram, elevation drawing, welding (WPS & PQR) according to contract specification, codes and standard in technical office.
 - Receiving and inspection all material such as different types of pipes, fitting, valves, strainer, filters, pumps, turbines and equipments according to contract specification, codes and standard in storage area.
 - Attendance meeting for discussion all comments and requirements with consultant company and main contractor.
 - Closely follow up daily activity works in site.
- Participating in:
 - Turbines erection works:
 - Conducting closely follow up starting from receiving and inspection bearing axes, chipping, straightness of anchor bolts, grouting of sole plates, rigging plan of each part and assembly.
 - Closely follow up all works for installation of generator, HP turbine, IP turbine and LP turbine.
 - Conducting inspection for clearances of steam seals, ink contact check, weight distribution, alignments (run out check) and bolt tightening, all of these to be within tolerances limits.
 - Conducting follow up inspection for turbine insulation.
 - Conducting inspection for fit up steam piping connection and pipe action forces with turbines to be within limits.
 - Conducting follow up commissioning and start-up.
 - Auxiliary skids of turbines work (oil, hydraulic, gland seal, drains, vacuum, tube cleaning and debris filter systems):
 - Closely follow up erection plan, piping installation, fixation, supports, welding flushing procedure, pump alignments, valves installation and hydro tests.
 - Reviewing all spare parts & special tools required for future maintenance.
 - Conducting follow up commissioning and start-up for every system.

Dates : From May 2004 till Apr. 2006

Employer : Middle Delta Electricity Production Co. (MDEPC)

Project : Nubaria Combined Cycle Power Station I & II (1500MW)

Job title : Construction Engineer

- Job Description** : As Owner Representative Mechanical Engineer responsible for:
- Reviewing all technical documentations such as (data sheets, isometric drawings piping and instrumentation diagram, elevation drawing, welding (WPS & PQR) according to contract specification, codes and standard in technical office.
 - Receiving and inspection all material such as (different types of pipes, fitting, valves, strainer, filters, pumps, turbines and equipments according to contract specification, codes and standard in storage area.
 - Attendance meeting for discussion all comments and requirements with consultant company and main contractor.
 - Closely follow up daily activity works in site.
 - Participating in:
 - Turbines erection works:
 - Conducting closely follow up starting from receiving and inspection bearing axes, chipping, straightness of anchor bolts, grouting of sole plates, rigging plan of each part and assembly.
 - Closely follow up all works for installation of generator, HP turbine, IP turbine and LP turbine.
 - Conducting inspection for clearances of steam seals, ink contact check, weight distribution, alignments (run out check) and bolt tightening, all of these to be within tolerances limits.
 - Conducting follow up inspection for turbine insulation.
 - Conducting inspection for fit up steam piping connection and pipe action forces with turbines to be within limits.
 - Conducting follow up commissioning and start-up.
 - Auxiliary skids of turbines work (oil, hydraulic, gland seal, drains, vacuum, tube cleaning and debris filter systems):
 - Closely follow up erection plan, piping installation, fixation, supports, welding flushing procedure, pump alignments, valves installation and hydro tests.
 - Reviewing all spare parts & special tools required for future maintenance.
 - Conducting follow up commissioning and start-up for every system.
- Dates** : From Apr. 2002 till Apr. 2004
- Employer** : ACETO Industries Company at El-Sadat City (production and collection electrical control board)
- Job title** : Mechanical Production Engineer
- Job Description** :
 - Responsible of follow up to production the control panel as mechanical parts.
 - Follow up to the production control system.
- 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 dimensions check report for machining items (Turbines, Pumps, Valves, etc.).
 - Review QC plan.
 - Review manufactures data book for (Gas Turbines and Steam Turbines).
 - Review final documentation of Test Package for piping & turbines.
 - 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:
 - 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.
 - Reviewing all site work and prepare the punch list for the construction contractor.
 - Witnessing all field tests including hydro test and all NDT tests.
- Maintenance experience:
 - Working in gas turbine maintenance (preventive maintenance and overhaul maintenance).
 - Working in steam turbine maintenance (preventive maintenance and overhaul maintenance).