

102503-MEC-1CMS-E-1999
Lead Mechanical Maintenance Engineer

Holds a B. Sc. in Mechanical Engineering and has 24 years' experience in electrical power generating plant. Expertise in maintenance of combined cycle power plant (steam / gas turbines, generators, rotating equipment, pumps, compressors and heat exchanger. Moreover, he works as a Construction, Commissioning and Start-up Engineer for the equipment mentioned above. Has good experience in preparing maintenance procedures.

PERSONAL DATA

Nationality : Egyptian
Gender : Male
Residence : Kafr El-Sheikh

EDUCATION

: B. Sc. in Mechanical Engineering, Higher Technological Institute, 1999

LANGUAGES

Arabic : Native Language
English : Very Good

COMPUTER SKILLS

: Windows, MS Office, Internet

TRAINING COURSES AND CERTIFICATIONS

- : Professional training from Oct. 2005 to Nov. 2005 on O&M of ALSTOM Heat Recovery Steam Generator at ALSTOM (Indonesia).
- : Professional training from Jun. 2006 to Jul. 2006 on maintenance for 250MW steam turbine at Mitsubishi Heavy Industry Company (Japan).
- : Professional training from Aug. 2005 to Sep. 2005 on maintenance of SIEMENS 250MW Combustion Turbine Generator.
- : Professional training from 22-08-06 to 30-08-06 on steam turbine maintenance class room training, Mitsubishi Company.
- : Professional training from 11-06-06 to 22-06-06 on firefighting systems operation and maintenance, INITEC / CHEMTROL Company.
- : Professional training from 27-04-06 to 28-04-06 on traveling water screen system maintenance, INITEC / TRANOS Company.
- : Professional training during August 2006 on air compressor system maintenance, INITEC / COMPAIR Company.
- : Professional training during April 2006 on hydrogen and oxygen gas plant maintenance, INITEC / STUART ENERGY Company.

- : Professional training on live line insulator washing system commissioning and operation, TYCO Company.

CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Jun. 2021 till now
- Employer** : Middle Delta Electricity Production Co.
- Project** : Nubaria Power Station (three power block total capacity 2250MW)
- Job title** : Lead Mechanical Maintenance Engineer
- Job Description** :
- Execute weekly and monthly routine and proactive maintenance plans.
 - Attend weekly troubleshooting meetings and maintaining daily Maintenance report.
 - Preparation of spare part lists and special tools required for overhaul maintenance and inspection.
 - Follow up all plant Turbines (Gas & Steam) maintenance activities (Daily, weekly, monthly & annually) basis.
 - Supervising & Scheduling Mechanical Maintenance for Turbine Auxiliaries (preventive & predictive maintenance) for axial Flow & centrifugal pumps, travelling screen, trash rakes, valves, overhead crane and heat exchanger.
 - Team Leader for Supervisors, organizing labors and providing process expertise to them.
 - Prepare all Maintenance reports.
 - Preparation of spare part lists (Capitals & Consumables) and special tools required for overhaul maintenance and inspection.
 - Co-ordinate between other departments (electrical and I&C) and arrange the requirements.
 - Overall maintenance and mechanical cleaning of plate heat exchanger (Alfa Laval).
 - Repair shell and tube heat exchanger.
 - Supervise all maintenance activities (CI) and (MI) for gas turbines and generator.
 - Supervise all overhaul maintenance activities for steam turbines, valves and generator.
 - Supervise all major inspection maintenance activities for steam and gas Auxiliaries.
 - Attend weekly troubleshooting meetings.
 - Condition monitoring.

- Dates** : From 2010 till 2021
- Employer** : MINISTRY OF ELECTRICITY AND WATER (MEW) – KUWAIT
- Projects** :
- Sabiya PS three block capacity 2000MW MAW/C/4010-2009/2010
 - Sabiya PS stage 1 capacity 500MW MAW/C/4608-2013/2014
 - AZ-ZOUR PS capacity 500MW MAW/C/4609-2013/2014
 - Sabiya PS stage 2 capacity 500MW MAW/C/4957-2015/2016
 - Sabiya PS stage 3 capacity 500MW MAW/C/5200-2017/2018
- Job title** : Senior Mechanical Engineer

- Job Description** :
- Engineering review for gas turbines and auxiliaires.
 - Study, review and comment for all documents relate to all project systems (ex. p&id, data sheet, system description, design criteria, system calculation, pneumatic and hydro test procedure, commissioning procedure, ...etc.).
 - Attend mechanical activity progress meetings and make sure that site activities are in line with project schedule.
 - Preparing all kinds of reports.
 - Coordinate all mechanical activities (Mechanical Equipment and piping installation) with other disciplines i.e. Civil, Electrical.
 - Review and approve contractors' progress invoices.
 - Follow up all site mechanical construction activities e.g. gas turbines Siemens STG5-4000F.
 - Participate in commissioning activities all tests for gas turbine Siemens STG5-4000F etc. (step load test – minimum and maximum load test – emissions test – fuel change over cold, warm, hot start-up test – load rejection test – ramp load test – noise level test – run back test – performance test).
 - Follow up all site mechanical construction activities e.g. gas turbines GE MS9001 FA.
 - Participate in commissioning activities all tests for gas turbine GE MS9001 FA etc. (step load test – minimum and maximum load test – emissions test – fuel change over cold, warm, hot start-up test – load rejection test – ramp load test – noise level test – run back test – performance test).
 - Follow up all site mechanical construction activities e.g. steam turbines GE.
 - Participate in commissioning activities all tests for steam turbine GE.

Dates : From 2006 till 2009

Employer : Middle Delta Electricity Production Co.

Project : Nubaria Power Station (two power block total capacity 1500MW)

Job title : Mechanical Maintenance Engineer

- Job Description** :
- Prepare weekly and monthly routine and preventive maintenance plans.
 - Attend weekly troubleshooting meetings and maintaining daily Maintenance report.
 - Preparation of spare part lists and special tools required for overhaul maintenance and inspection.
 - Make minor inspection for Siemens gas turbine SGT5-4000 F (V94.3A) (250MW): I worked in chemical cleaning for burners, changing of ceramic tiles of combustion chamber, visual inspection of turbine & compressor blades.
 - Make hot gas path inspection for Siemens gas turbine SGT5-4000 F (V94.3A) (250MW): I worked with Siemens group of that inspection, removing the outer casing in the turbine section, lifting off upper sections of the turbine stationary blades carrier and rolling out the lower section of the turbine stationary blades carrier and removing blades / vans for refurbishment / replacement. Chemical cleaning for burners, changing of ceramic tiles of combustion chamber, visual inspection of turbine & compressor blades. Check the axial & radial clearance for blades.

- Make warranty major inspection for one steam turbine MHI 250MW with supervisor Mitsubishi company: removing upper casing for HP - IP turbine, removing the stationary blades, removing all bearing and make NDT, lifting off the rotor, inspection for internal prates & check the axial & radial clearance for blades, make alignment for HP-IP & LP and generator shaft, removing the control valves & stop valves and check for internal parts.
- Overhaul Maintenance for major pumps (circulating, service KSB) & travel screen.
- Follow up the maintenance activities for the steam and gas turbine (2x750MW).
- Maintenance schedules (daily, weekly, monthly, etc.).
- Inspection and receiving spare parts for contracts.
- Inspection and repair for all manual and control high-pressure steam valves types (gate, globe, knife, butterfly, ball and check valves) with different size.

Dates : From 2004 till 2006

Employer : Middle Delta Electricity Production Co.

Project : Nubaria Power Station (two power block total capacity 1500MW)

Job title : Mechanical Engineer

Job Description :

- Engineering review for gas turbines and auxiliares.
- Follow up all site mechanical construction activities for the contracts.
- Reviewing and revise all submittals with the contracts.
- Attend mechanical activity progress meetings and make sure that site activities are in line with project schedule.
- Monitor and attend all Types of NDT's (Non-Destructive Tests) & Hydrostatic Tests.
- Monitor and attend shaft alignment for CTG & STG Rotors.
- Calibration of all steam turbines control valves with main contractor.
- Review and approve MRR's (Material Receiving Reports).
- Review and approve contractors' progress invoices.
- Coordinate all mechanical activities (Mechanical Equipment and piping installation) with other disciplines i.e. Civil, Electrical.
- Review and check As-Built drawings.
- Carry out all commissioning activities as per manufacture recommendation.
- Commissioning, start-up and operation for steam turbine (MITSUBISHI).
- Commissioning for pump house equipment (circulating, service pumps, Dual Flow Band Screens and Wash water Systems).
- Commissioning for firefighting system.

Dates : From 2003 till 2004

Employer : ALMADAEN COMPANY FOR FOUNDATION AND CONSTRUCTION – EGYPT

Job title : Workshop Mechanical Engineer

Job Description : Maintenance and repair of hydraulic systems for concrete pumps and soil drilling machines.

Dates : From 2002 till 2003
Employer : EGYPTIAN ARMED FORCES (NAVY FORCES)
Job title : Mechanical Engineer
Job Description : Mechanical Workshop & Technical Office.

Dates : From 1999 till 2002
Employer : SKODA EXPORT / KAHROMIKA CONSORTIUM
Project : AYOUN MOUSSA PS capacity 640MW
Job title : Mechanical Engineer
Job Description :

- Technical Office Engineer and follow up construction activities.
- Preparing all kinds of reports.
- Preparing As-Built drawing.
- Preparing erection procedure for all non-critical piping.
- Follow up for construction activities for non-critical piping.
- Prepare RFI's and follow up with designer.
- Follow for installation of pumping stations.
- Follow up of critical piping installation activities.
- Supervision of startup activities for firefighting system and pumps.