

105988-MEC-1CMOS-E-2004
Commissioning & Start-up Engineer

Holds B. Sc. and M. Sc. in Mechanical Power Engineering and has about 12 years hands-on experience working in construction, maintenance, operation, commissioning and start-up.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 14/08/1980
Gender : Male
Marital Status : Married
Residence : El-Behira

EDUCATION

: B. Sc. in Mechanical Power Engineering, Alexandria University, 2004
: M. Sc. in Mechanical Power Engineering, Alexandria University, 2014

LANGUAGES

Arabic : Native Language
English : Good

COMPUTER SKILLS

: Windows, MS Office, Internet

TRAINING COURSES AND CERTIFICATIONS

: Operation and maintenance of combined cycle, West Delta Electricity Production Company, Abu Qir (Dec. 2006).
: Contract maintenance training of ALSTOM steam turbine, Mannheim - Germany (Nov./Dec. 2009).
: Contract maintenance training of ALSTOM steam turbine, Nubaria Power Station (from Mar. till May 2010), Contents: steam turbine and auxiliaries maintenance:

- Turbine.
- Steam surface Condenser.
- Debris filter system.
- Tube cleaning system.
- Condenser vacuum pumps.
- Water box vacuum pumps.
- HP/IP bypasses system.

: English: Toefl course.

CHRONOLOGICAL EXPERIENCE RECORD

Dates : From 2018 till now
Employer : BP (British Petroleum)
Project : WND (West Nile Delta), Egypt
Consists of five core offshore, namely:

- Giza, Fayoum.
- Raven.
- Taurus and Libra over two project phases namely phase 1a and 1b.

Job title : Commissioning & Start-up Engineer
Job Description :

- Full responsibility for commissioning & start-up mechanical equipment.
- Full responsibility for PTW, isolate systems mechanically to be ready for work.
- Be aware of commissioning schedule of the site and accordingly divide the work through comm. team and allocate needed resources such as manpower and tools.
- Make sure all systems are completed before taking over by comm. team and following up to remove the remaining open items through punch lists by installation team.
- Receiving the systems from QC (Quality Control) and Construction, then commissioning of mechanical systems, including: process systems and utility systems.
- Close connection with Health and Safety Executive (HSE) unit to make everybody aware of likely danger potentials of commissioning activities.
- Supervise all acceptance tests of units.
- Pre and final walk down to check construction punch items.
- Pre and final walk down to check construction punch items.
- Monitor and attend all Types of NDT's and Hydro tests and all Pumps and Motors alignments and all pipes systems Air blowing and flushing.
- Lube Oil flushing for utility gas turbines (four units 7.5MW each) with respecting SIEMENS procedure.
- Leak test and air below for all instrument air, plant air and nitrogen piping systems with respecting the BP recommendation.
- Troubleshoot the issues or problems found during testing or commissioning and achieve the solution in reasonable manner.
- Responsible for operation and maintenance for the mechanical system/equipment which is commissioned until end of commissioning phase.

Dates : From 2011 till 2018
Employer : Middle Delta Electricity Production Company
Project : Nubaria Combined Cycle 3 (750MW), consists of:

- Two General Electric gas turbines 250MW type MS9001FA.
- One ALSTOM steam turbine 250MW (HP, IP and LP).
- Two horizontal STF HRSG.
- 500KV switch yard.
- Mechanical Equipment and Auxiliaries.

Job title : Senior Mechanical Maintenance Engineer

- Job Description** : • GE MS9001FA Gas Turbine maintenance:
- Performing combustion inspection maintenance (CI) Disassembly, Inspection and Reassembly.
 - Performing Hot gas path inspection maintenance (HGP).
 - Performing Major inspection Maintenance (MI) Disassembly, Inspection and Reassembly.
 - Inspect clearance for journal and thrust bearing of turbine.
 - Generator bearings and hydrogen seal inspection maintenance.
 - Turbine bearings inspection maintenance.
 - Performing alignment for generator shaft with turbine shaft.
 - Measuring and recording turbine & compressor & bearing and seal clearances.
 - Prepare weekly, monthly and annually routine and preventive and routine maintenance plans.
 - Specifying the spare parts that are required.
 - Upgrade (advanced gas path) for GE gas turbine.
 - Performing Lube, seal and hydraulic oil system maintenance (pumps, coolers, filters and valves).
 - Performing Diverter damper hydraulic oil system maintenance (pumps, coolers, filters and valves).
 - Performing Gas fuel and fuel oil systems maintenance (valves, liquid fuel pump and distributor).
 - Performing Water injection and compressor wash systems maintenance.
 - Performing Atomizing air system maintenance (air compressor, air cooler, valves and air filter).
 - Performing Instrument air compressor and air dryer system maintenance.
 - Performing Air process unit system (APU) maintenance.
 - Performing Generator hydrogen dryer maintenance.
 - Performing Filter house and exhaust systems inspections and replacement filters.
 - Performing Closed cooling and water service systems maintenance (pumps, filters, valves and heat exchangers).
- ALSTOM DKY3-2N41C steam turbine:
- Performing warranty inspection after two years turbine operation.
 - Inspect clearance for journal and thrust bearing of turbine.
 - Inspect steam control valves.
 - Generator bearings inspection maintenance.
 - Performing alignment for generator shaft with turbine shaft.
 - Measuring and recording turbine & bearing and seal clearances.
 - Performing IP turbine gland seal repair and LP turbine blades modification.
 - Maintenance for all main steam valves C.V, S.V, LP admission valves.
 - Prepare weekly, monthly and annually routine and preventive and routine maintenance plans.
 - Specifying the spare parts that are required.
 - Performing Lube and hydraulic oil systems maintenance (pumps,

coolers, filters and valves).

- Performing Instrument air and service compressors and air dryer system maintenance.
- Performing steam condenser maintenance.
- Performing condenser vacuum pumps, water box vacuum pumps maintenance.
- Performing debris filter maintenance.
- Performing gland steam system maintenance.
- Performing condenser tube cleaning system maintenance.
- Performing HP/IP bypass system maintenance.
- Performing condensate water pumps maintenance.
- Performing service water pumps maintenance.
- Performing circulating water pumps maintenance.
- Performing trash rack maintenance.
- Performing HVAC systems maintenance.
- Preparation of spare part lists (Capitals & Consumables) and tools required for overhaul maintenance and inspection.
- Coordinate with other departments for common maintenance activities (I&C, Electrical, ...etc.) and take the remedy actions.

- Dates** : From 2008 till 2011
- Employer** : Middle Delta Electricity Production Company
- Project** : Nubaria Combined Cycle 3 (750MW)
- Job title** : Construction, Commissioning & Start-up Engineer
- Job Description** :
- Follow up and supervision the construction for the following systems and equipment's:
 - HP & IP & LP turbines and generator.
 - Steam control and stop valves.
 - Steam condenser.
 - Condenser tube cleaning system.
 - Debris filter.
 - Gland steam system.
 - Condensate water pumps.
 - Compressed air systems.
 - Lubrication and hydraulic oil systems.
 - Firefighting systems.
 - Cooling water systems.
 - Condenser vacuum pumps.
 - Water box vacuum pumps.
 - Pumps of different types construction.
 - HP & IP bypass stations.
 - Commissioning & Start-up for the following systems and equipment's:
 - HP & IP & LP turbines and generator.
 - Steam control and stop valves.
 - Steam condenser.
 - Condenser tube cleaning system.
 - Debris filter.
 - Gland steam system.

- Condensate water pumps.
- Compressed air systems.
- Lubrication and hydraulic oil systems.
- Firefighting systems.
- Cooling water systems.
- Condenser vacuum pumps.
- Water box vacuum pumps.
- Pumps of different types construction.
- HP & IP bypass stations.
- Receiving the material and supervising the installation of mechanical activities which include assembling of the stationery & rotating parts (pumps, compressors, heat exchanger, tanks,.....etc.).
- Check our work scope according P&ID, ISO. And Contract Specification.
- Review, Receive, Inspect and Storage the Spare Parts.
- Pre and final walk down to check construction punch items.
- Receiving and inspection reports.
- Follow up the achieving of the materials contractual obligations up to the invoicing.
- Give technical support for the contractor from time to time to meet the contract specifications and requirement.
- Monitor and attend all Types of NDT's and Hydro tests and all Pumps and Motors alignments and all pipes systems Air blowing and flushing.
- Lube Oil flushing with respecting ALSTOM procedure.
- Leak test, steam blow and air below for all turbine piping systems with respecting the ALSTOM recommendation.
- Coordinate with engineering/design company in case of design error or changes.
- Markup all the mechanical/process drawings in case of changes and Submit the as-built to engineering/design company for approval and revisions.
- Troubleshoot the issues or problems found during testing or commissioning and achieve the solution in reasonable manner.
- Responsible for operation and maintenance for the mechanical system/equipment which is commissioned until end of commissioning phase.

Dates : From 2006 till 2008

Employer : West Delta Electricity Production Company

Project : Nubaria Combined Cycle 1 & 2 (1500MW), consists of:

- Four SIEMENS gas turbines 250MW type V94.3A.
- Four horizontal ALSTOM HRSG.
- Two MITSUBISHI steam turbines 250MW.

Job title : Operation Engineer

Job Description :

- Operation of Gas Turbine.
- Operation of steam turbine.
- Conducting all preparation steps of units in field to realize permissive for start-up from control room such as (filling line of water free of bubbles, all safety valves ready, coolers in service, all skids of hydraulic and pneumatic ready, firefighting ready, all electrical power source ready

position of motorized valves in auto mode and ready to work locally, all manual valves before and after control and motorized valves shall be open, etc.).

- Follow up combustion chamber inspection of Siemens V94.3A.
- Follow up hot gas pass inspection of Siemens V94.3A.
- Follow up steam turbine warranty inspection after two years turbine operation.