

Holds a B. Sc. in Mechanical Power Engineering and has over 13 years hands-on experience working in maintenance, operation, commissioning and start-up.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 25/10/1987
Gender : Male
Marital Status : Married
Residence : Currently KSA

EDUCATION

: B. Sc. in Mechanical Power Engineering, Alexandria University, 2009

LANGUAGES

Arabic : Native Language
English : Very Good

COMPUTER SKILLS

: Windows, MS Office, Internet

TRAINING COURSES AND CERTIFICATIONS

- : Operation and Maintenance Standby Diesel Generating Set (MTU).
- : Operation of Siemens Gas Turbine V94.3A with control system T-3000.
- : Operation of Heat Recovery Steam Generator and Auxiliaries, CMI/Skoda Praha:
 - Overview process control system Ovation OV010.
 - Heat recovery steam generator (HRSG) in CMI Company including:
 - HRSG water survey and HRSG conservation.
 - HRSG heating release.
 - HRSG alarms and HRSG tripe.
 - HRSG start-up and shutdown.
 - HRSG logics.
- : Operation of steam turbine, Hitachi:
 - Overview process control system MARK VI.
 - Process start-up, operation and shut down.
 - Overview Steam Turbine and its Auxiliaries.
 - Mechanical, Electrical Equipment operation and troubleshooting.
- : ASME B31.1, B31.3, ...

CHRONOLOGICAL EXPERIENCE RECORD

Dates : From Oct. 2022 till now
Employer : Siemens Energy
Project : Qurayyah Independent Power Plant:

- Twelve Gas turbines SGT5000F.
- Twelve Heat Recovery Steam Generators manufactured by BHI.
- Six Steam turbine manufactured by Siemens.

Job title : TFA & Commissioning Engineer
Job Description :

- Scope of Work: DAL Solution and Fuel Oil Commissioning.
- Implementation of DAL (Dual Atomizing Lance) as first-time solution for SGT5000F Machine.
- Follow up all Tests such as (Support Housing Pressure test, Flow test, ...etc.).
- Pre-commissioning and Commissioning for Fuel Oil System (Fuel oil pump, Water injection pump, Throttle valves, Flow meters, Isolation valves, Drain valves, ...etc.).
- Fuel oil and Water Check valves tests (Crack pressure test, Back flow test).
- Follow up Fuel oil and Water pipelines and tubes Flushing.
- Follow up CV test and Bucket test for Fuel oil.
- Follow up CV test and Barrel test for Water.
- Leak check for FO and Water fittings.
- Make sure Purge system working properly.
- Observe a Machine performance while running with Oil.

Dates : From May 2021 till Sep. 2022
Employer : SHANAHAN ENGINEERING LIMITED
Projects : PP13 & PP14 at Riyadh – KSA
Job title : Senior Mechanical Commissioning Engineer
Job Description :

- Testing & Commissioning Engineer for Two Combined Cycle Power Projects at Riyadh Area owned by Saudi Electricity Company, each one of them included but not limited to the following: Two (2) generation blocks each one of them have Three Gas Turbine from GE frame 7FA.05 (185MW), Three Heat Recovery Steam Generators from STF and One Steam Turbine from GE frame D11.
- Organize the mechanical commissioning activities and preparing daily activity report.
- Responsible of review of specification of the mechanical packages.
- Performing preliminary and final tests for all systems including flushing, solo run test and performance tests.
- Turn over sign-off sheet from construction to commissioning.
- Commissioning completion report.
- Pre-commissioning and commissioning for all mechanical packages.
- Chemical Cleaning and Steam blow for HRSGs.
- Following steam turbine installation and Commissioning for its auxiliary systems such as lubricant oil circuit, seal oil circuit, H2 circuit, steam seal circuit and hydraulic circuit.
- Turn over sign-off sheet from commissioning to owner.

- Turnover packages follow up.
- Review construction method of statement (MOS) which submitted by vendors.
- Follow up mechanical activity as per ASME code (hydrotest, oil flushing, air blowing, PWHT and nitrogen preservation).
- Supervise and support Commissioning Technicians in the execution of their daily activities.
- Status reporting of commissioning progress as required by the Project Manager.
- Identification & sourcing of Commissioning tools / spares / consumables.
- Follow up safe start-up for equipment and for people.
- Follow up (LOTO) isolation procedure for equipment maintenance.
- Follow up (LOTO) Safety Tags for equipment maintenance.
- At the same time, I'm performing all mechanical maintenance activities for the commissioned and running systems / which included but not limited to the following: Preventative Maintenance - Corrective Maintenance.

Dates : From Oct. 2020 till Apr. 2021

Employer : Siemens Energy

Project : Qurayyah Independent Power Plant:

- Twelve Gas turbines SGT5000F.
- Twelve Heat Recovery Steam Generators manufactured by BHI.
- Six Steam turbine manufactured by Siemens.

Job title : TFA & Commissioning Engineer

Job Description :

- Scope of Work: CI & HGPI Outage and Fuel Oil Commissioning.
- Outage (CI & HGPI) Support Engineer.
- Follow up all Tests such as (Support Housing Pressure test, Flow test, ...etc.).
- Pre-commissioning and Commissioning for Fuel Oil System (Fuel oil pump, Water injection pump, Throttle valves, Flow meters, Isolation valves, Drain valves, ...etc.).
- Fuel oil and Water Check valves tests (Crack pressure test, Back flow test).
- Follow up Fuel oil and Water pipelines and tubes Flushing.
- Follow up CV test and Bucket test for Fuel oil.
- Follow up CV test and Barrel test for Water.
- Leak check for FO and Water fittings.
- Make sure Purge system working properly.
- Observe a Machine performance while running with Oil.

Dates : From Dec. 2017 till Sep. 2020

Employer : SHANAHAN ENGINEERING LIMITED

Projects : PP13 & PP14 at Riyadh – KSA

Job title : Senior Mechanical Commissioning Engineer

Job Description :

- Installation, Testing & Commissioning Engineer for Two Combined Cycle Power Projects owned by Saudi Electricity Company, each one of them included but not limited to the following: Two (2) blocks each one of them have Three Gas Turbine from GE frame 7FA.05 (185MW), Three Heat

Recovery Steam Generators from STF and One Steam Turbine from GE frame D11.

- Balance of Plant systems which included but not limited to the following:
 - Closed cooling circuit to cool the water which used to cool different systems in the power plant such as Lube Oil System, Generators, Load Commutative Inverter at Gas Turbines, Flame Detector at Gas Turbines, ...etc.
 - Hydrogen Plant to supply all Gas Turbines Generators and Steam Turbine Generators with the required Hydrogen for cooling.
 - Gas Station to make filtration to the gas, adjusting its temperature and pressure before interring to all gas turbines.
 - Instrument / Service Air Compressors to control on opening and closing of all air valves in the power plant.
 - Water Treatment Plant to supply the plant with all types of required water such as Demineralized water, Service Water, Potable Water and Raw Water, the Water Treatment Plant capacity is 10000 m3/day which manufactured and supplied by Suez Environment.
 - Firefighting systems such as water, CO2, FM200 and Foam.
 - Liquid Fuel Station to supply Gas Turbines with the required Liquid fuel during operation on LF mode.
 - Emergency Diesel Generators to safe shutdown of the generation units at trip scenario.
- Review and study Issued for Construction drawings (IFC Drawings).
- Prepare plan for construction activities to comply with the Project Milestone Dates.
- Construct the above systems as per Issued for Construction drawings and Design limits.
- Identification of systems limits.
- Review construction method of statement (MOS) which submitted by vendors.
- Conduct all Pre-Commissioning Tests for all above systems.
- Conduct all Commissioning Tests for all above systems.
- Start-up and operation for the commissioned systems.
- Follow with the client to close all punch list items.
- Personal accomplish commissioning for firefighting system with successful transformers spray test.
- Follow up mechanical activity as per ASME code (hydrotest, oil flushing, air blowing, PWHT and nitrogen preservation).
- Supervise and support Commissioning Technicians in the execution of their daily activities.
- Status reporting of commissioning progress as required by the Project Manager.
- Identification & sourcing of Commissioning tools / spares / consumables.
- Follow up safe start-up for equipment and for people.
- Follow up (LOTO) isolation procedure for equipment maintenance.
- Follow up (LOTO) Safety Tags for equipment maintenance.

Dates : From Sep. 2010 till Dec. 2017
Employer : UPPER EGYPT ELECTRICITY PRODUCTION COMPANY
Project : El-Kureimat II Combined Cycle Power Plant (750MW):

- Two Gas turbines SGT4000F (Siemens V94.3A) 2x250MW.

- Two Heat Recovery Steam Generators manufactured by CMI Companies.
 - One Steam turbine of 250MW manufactured by Hitachi and controlled by Mark VI control system of General Electric.
 - Water Treatment Plant manufactured and supplied by Metito.
 - Gas Metering Station.
 - Hydrogen Plant.
 - 220KV substation.
- Job title** : Operation & Maintenance Engineer
- Job Description** :
- Follow up equipment test programs.
 - Operation via T-3000 and Mark Vie operation control system.
 - Monitor the operation of the gas turbine, running parameters and auxiliaries' operations from a safety and efficiency aspect.
 - Check Safety Procedures and Plant reliability.
 - Maintain the optimum performance of all operating units.
- Dates** : From Aug. 2009 till Sep. 2010
- Employer** : Bamag Egypt Company for water treatment plants
- Project** : East Cairo Water Treatment Plant (capacity 1,000,000 m3/day)
- Job title** : Mechanical Construction, Commissioning & Start-up Engineer
- Job Description** :
- Review and study Issued for Construction drawings (IFC Drawings).
 - Prepare plan for construction activities to comply with the Project Milestone Dates.
 - Construct the above systems as per Issued for Construction drawings and Design limits.
 - Identification of systems limits.
 - Review construction method of statement (MOS) which submitted by vendors.
 - Conduct all Pre-Commissioning Tests for all above systems.
 - Conduct all Commissioning Tests for all above systems.
 - Start-up and operation for the commissioned systems.
 - Follow with the client to close all punch list items.
 - Personal accomplish commissioning for firefighting system with successful transformers spray test.
 - Follow up mechanical activity as per ASME code (hydrotest, oil flushing, air blowing, PWHT and nitrogen preservation).
 - Supervise and support Commissioning Technicians in the execution of their daily activities.
 - Status reporting of commissioning progress as required by the Project Manager.
 - Identification & sourcing of Commissioning tools / spares / consumables.
 - Follow up safe start-up for equipment and for people.
 - Follow up (LOTO) isolation procedure for equipment maintenance.
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