

104941-MEC-15MOS-E-2010
Mechanical Commissioning & Operation Engineer

Holds a B. Sc. in Mechanical Power Engineering and Master of Engineering in Mechanical Design. Has over 12 years hands-on experience, including 10 years working as Operation & Commissioning Engineer at Power Plants.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 14/07/1988
Gender : Male
Marital Status : Married
Residence : Alexandria

EDUCATION

: B. Sc. in Mechanical Power Engineering, Alexandria University, 2010
: Master of Engineering (Mechanical Design Dept.), Alexandria University, 2013

LANGUAGES

Arabic : Native Language
English : Good

COMPUTER SKILLS

: Windows, MS Office, Internet
: AutoCAD 2D & 3D
: Aspen HYSYS
: Diasys Netmation Operation System
: Siemens T-3000 operation system
: Schindeler DCS operation system
: Yokogawa DCS operation system
: ABB Operation System

TRAINING COURSES AND CERTIFICATIONS

: OSHA general industry safety and health.
: Power Stations operation from Alexandria University.
: Mitsubishi Heavy Industries (MHI) operation training.
: English: TOEFL Certificate from Faculty of Arts, Alexandria University.

CHRONOLOGICAL EXPERIENCE RECORD

Dates : From Jun. 2020 till Nov. 2022
Employer : Doosan Heavy Industries and Construction (DHI)
Project : Assiut Steam Power Plant 1670MW (supercritical)
DHI steam turbine and generator model (DST-S20/HIP combined +4FLP) with (24KV generator hydrogen cooling and stator water coil cooling) and turbine and generator auxiliaries.
Job title : Commissioning & Operation Mechanical Engineer
Job Description :

- Pre-commissioning and commissioning and maintenance and operation: Lube oil system flushing, control oil flushing, seal oil flushing, steam blow, initial turning gear, stator coil cooling flushing, adjustment for steam turbine main valves and execution non-return valves, vacuum up test, first filling hydrogen gas inside generator and purge, steam turbine bypass skid oil flushing and bypass operation.
- Air blow for instrument air system.
- Initial start-up for steam turbine, over speed test, synchronization, valve test.
- Unit stabilization (operation) followed by performance guarantee (PG) test, reliability test (RT), unit controller, responsibility plant operation, proper and timely response during emergency, coordinate startup/shutdown activities and run back testes and load rejection tests.
- Performed performance tests.
- Preventive maintenance as pre-scheduled.
- Operation system in TCS with Doosan Company (Siemens T3000).

Dates : From May 2022 till Jun. 2022
Employer : SIEMENS
Project : ENERJI SA URETIM, BURASI TUFANBEYLI SANTERL, TURKEY (steam turbine type SST-800)
Job title : Mechanical Commissioning & Operation Engineer
Job Description :

- Preparing all equipment (pre-commissioning solo run, heat run, inspection for cleaning before flushing).
- Start lube oil flushing and seal oil flushing and control oil flushing.
- Rotor oil lift adjustment by jacking oil pump.
- Adjust hydraulic oil pump skid and main valves stroke.
- Commissioning work for all STG utilities (seal oil - stator cooling water - H2 charging).
- Prepare start-up procedure.
- Do all operation tests (performance test - reliability test - run back test - load rejection - house load test).

Dates : From Mar. 2017 till May 2020
Employer : MHPS (Mitsubishi and Hitachi Power System)
Project : South Helwan Supercritical Power Plant 3x670MW
Job title : Mechanical Commissioning & Operation Engineer
Job Description :

- Lube oil system flushing, control oil flushing, Seal oil flushing, steam blow, initial turning gear, adjustment and check for steam turbine control valve (MSV, GV, RSV & ICV), vacuum up test, first filling hydrogen gas

- in generator, bypass operation.
- Initial start-up for Steam turbine, over speed test, Synchronization, Valve test.
- Unit Stabilization (Operation) followed by Performance Guarantee (PG) Test & Reality Test (RT) Role, Unit Controller, Responsibility - Plant operation, prompt and timely response during emergency, Coordinate start-up/shutdown activities, successful execution of RT & PG test.
- Follow-up performance and operation of the equipment.
- Preventive maintenance as pre-Scheduled.
- Operation System in TCS with MHI Company (Diasys Netmation).
- Air blow for instrument air.
- Rotor lifting and rotor mass balance.

Dates : From Jan. 2017 till Jun. 2017
Employer : SIEMENS
Project : Beni Suef Siemens 4 Combined Cycles 4800MW Power Plant
Job title : Mechanical Commissioning & Operation Engineer
Job Description :

- Preparing all equipment (pre-commissioning solo run, heat run, inspection for cleaning before flushing).
- Start lube oil flushing and seal oil flushing and control oil flushing.
- Rotor oil lift adjustment by jacking oil pump.
- Adjust hydraulic oil pump skid and main valves stroke.
- Commissioning work for all STG utilities (seal oil - stator cooling water - H2 charging).
- Prepare start-up procedure.
- Do all operation tests (performance test - reliability test - run back test - load rejection - house load test).

Dates : From Feb. 2012 till Jun. 2017
Employer : West Delta Electricity Production Company (WDEPC)
Project : Abu Qir Steam Turbine Thermal Power Plant (2x650MW)
Job title : Mechanical Commissioning & Operation Engineer
Job Description :

- Turbine & auxiliaries & boiler responsible for condition monitoring and fast action maintenance required and daily reporting for top management.
- Following the rated charts and diagrams for start-up, normal operation and shut-down for Thermal Power Plant 2x650MW.
- Was a part of commissioning team for mechanical systems for the whole plant consists of all Units Auxiliaries, steam turbine and Boiler with each manufacturing company team.
- Hydrogen production plant installation and commissioning.
- Following up the Daily and routine Maintenance for all Mechanical equipments exists in the Power Plant.

Dates : From Jul. 2010 till Jan. 2012
Employer : Eltarek Elnile Kia Motors
Job title : Automotive Mechanical Maintenance Engineer
Job Description : Was working in the Company Workshop for car Maintenance for all mechanical parts as engine transmission and suspension systems as

leading the Technicians and guide them for the Maintenance procedures and which parts need to be replacement and which need to be maintained.

- Field of experience :**
- Experience of more than 12 years in electrical power plants (MHPS & DOOSAN).
 - Successfully overseeing and completing projects thermal power plants and supercritical power plants.
 - Good experience in mechanical maintenance and commissioning and operation in turbine and generator and auxiliaries and boilers and all power plant auxiliaries.
 - Preparation, planning and execution for commissioning & start-up of steam turbine and gas turbine combined cycle plant and its systems.
 - Carry out safe commissioning activities of power plant during new construction phase, including its start-up, testing until handing over to customer.
 - Manage, perform, coordinate and monitor the commissioning of power plant systems by arrange with the commissioning manger.
 - Facilitate the turnover of systems from erection to commissioning and from commissioning to customer in accordance with project requirements.
 - Carry out troubleshooting, recording as well as analyzing customer problems and proposing remedial measures.
 - Operation for control systems from central control room and from field.
 - Start-up, operation and troubleshooting and do all operation and protection tests and runback tests and load rejection and house load and valve tests for large frame steam turbine.
 - Owner Operator training before commencing commercial operation of a new power plant.
 - Good understanding of thermodynamics principals related to steam turbine and combined cycle power plant.
 - Complete documentation and test certification and drawing and close all punch items for site turn over.
 - Perform inspection of systems and report commissioning manger.
 - Do maintenance work for mechanical rotary and static equipment.