

Senior Mechanical Commissioning & Operation Engineer

Holds a B. Sc. in Mechanical Power Engineering and has over 11 years hands-on experience working in commissioning, start-up and operation at several Power Plants.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 13/06/1988
Gender : Male
Marital Status : Married
Residence : Currently Oman

EDUCATION

: B. Sc. in Mechanical Power Engineering, Cairo University, 2010

LANGUAGES

Arabic : Native Language
English : Fluent
German : Basics

COMPUTER SKILLS

: Windows, MS Office, Internet
: AutoCAD 2D
: Matlab

TRAINING COURSES AND CERTIFICATIONS

: Hydraulic Power Research Institute (Pump maintenance & Calibration) (2007).
: North Cairo Power Plant 4 units x 318MW (Thermal Power cycles) (2008).
: Refrigeration techniques (Training Institute staff) (2009).
: Quality management system awareness program.
: ICDL (International Computer Driving License).

CHRONOLOGICAL EXPERIENCE RECORD

Dates : From Feb. 2022 till now
Employer : Alghanim International ACTS
Project : DUQM Combined Cycle Power Plant 325MW (SPPA-T3000 Control System), OMAN

Duqm Power Plant for feeding Duqm refinery with power, the plant consists of 5 power blocks each block has Siemens gas turbine frame SGT5-800 and one VOGT HRSG equipped with Siemens Steam turbine frame SST 300.

- Job title** : Senior Mechanical Commissioning & Operation Engineer
- Job Description** :
- Doing commissioning tests & start-up for all main and auxiliary equipments and systems of the plant.
 - Make sure all the technical documents necessary for commissioning of different units are available with commissioning team.
 - 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 that all necessary tools and equipment for comm. Are available with the team and calibration is already performed.
 - 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 Construction team.
 - Commissioning check lists are to be completed and the critical records highlighted.
 - Receiving the systems from QC (Quality Control) and Construction, then commissioning of mechanical systems, including: closed cooling water, service water, circulating water, fire fighting, solar fuel, compressed air, condensate water, waste sump pump and feed water systems. This requires thorough understanding and exercising of ultimate industrial safety practices.
 - Hand over of the commissioned systems with the integrated rules.
 - Good knowledge of interfaces between different units by which will provide a correct sequence of commissioning activities.
 - Close connection with Health and Safety Executive (HSE) unit to make everybody aware of likely danger potentials of commissioning activities.
 - Plan all individual units and overall plant are handed over to client after completion of commissioning, the respective operation manuals and documents handed over and necessary training courses are held for client operation team enabling them to run the plant.
 - Supervise all acceptance tests of units.

- Dates** : From Jun. 2018 till Jan. 2022
- Employer** : Alghanim International EPC
- Project** : SABIYA Combined Cycle Plant stage-3 750MW, Siemens gas turbine frame SGT5-4000F and Steam turbine frame SST5-5000 (SPPA-T3000 Control System), KUWAIT
- Job title** : Senior Mechanical Commissioning & Operation Engineer

- Dates** : From Jul. 2016 till May 2018
- Employer** : El Sewedy Electric PSP
- Project** : Beni Suef Combined Power Plant 4800MW, Siemens turbine frame S GT5-8000H gas turbine Steam turbine frame SST5-5000 (SPPA-T3000 Control System)
- Job title** : Senior Mechanical Commissioning Engineer
- Job Description** :
- Commissioning of the following systems:
 - Lube oil system MBV.

- Seal Oil system MKW.
- Lifting oil system MAV.
- Hydraulic oil system MBX.
- HCO (hydraulic clearance optimization) system.
- Instrument air system MBX-2X.
- Gas system (five stages a, b, c, d, pilot).
- IGV & VGV system.
- Closed cooling system PGB.
- Air intake system MBL.
- Fire fighting system.
- Service water cooling system SW.
- Prepration of HRSG Control valves for Hydrotest and chemical cleaning in steam cycle
- Support chemical cleaning in steam cycle.

Dates : From Nov. 2014 till Jul. 2016
Employer : EI Sewedy Electric PSP
Project : Al-Diwaniya Simple Cycle Project 4x125MW at IRAQ, GE gas turbine frame 9E, Mark VI Turbine Control System
Job title : Senior Mechanical Commissioning & Operation Engineer

Dates : From May 2014 till Nov. 2014
Employer : HTP Hitachi Plant Technologies LTD
Project : Banha Combined Cycle Gas Turbine Power Plant 750MW CP-118 Contractor, Two (250MW) GE gas turbines Frame (9FA), Two HRSG Ansaldo Caldaie, One 250MW Steam Turbine (Ansaldo Energia)
Job title : Operation Engineer

Dates : From Mar. 2013 till May 2014
Employer : HTP Hitachi Plant Technologies LTD
Project : Banha Combined Cycle Gas Turbine Power Plant 750MW CP-118 Contractor, Two (250MW) GE gas turbines Frame (9FA), Two HRSG Ansaldo Caldaie, One 250MW Steam Turbine (Ansaldo Energia)

Job title : Mechanical Commissioning Engineer
Job Description : Commissioned Systems in details:

- Testing & Commissioning of HY Silt Dredge System.
- Testing & Commissioning of XW waste sump pump system.
- Testing & Commissioning of WR raw water system & bearing.
- Lubrication system & lubrication skid.
- Testing & Commissioning of WB closed cooling system.
- Testing & Commissioning of SC Demineralized water system.
- Testing & Commissioning of PF firefighting system.
- Testing & Commissioning of WS service water system.
- Testing & Commissioning of PI service & instrument Air system.
- Testing & Commissioning of FOI Solar system & Solar treatment Skid.
- Testing & Commissioning of WL circulating water system.
- Testing & Commissioning of PG Hydrogen Plant (Proton Unit Manufacture 2 Units x 4 m3/hr).
- Testing & Commissioning of AD Condensate water System.

- Testing & Commissioning of AE feed water System.

Dates : From Mar. 2012 till Mar. 2013
Employer : ZTPC Zhejiang Thermal Power Company, Consortium of AVIC/ZTPC Company
Project : Abu Qir gas/oil fired Thermal Power Plant 2x650MW CP-118
Job title : Mechanical Commissioning & Operation Engineer
Job Description :

- Testing & Commissioning of WB closed cooling system.
- Testing & Commissioning of WD Demineralized water system.
- Testing & Commissioning of PF firefighting system.
- Testing & Commissioning & Operation of PG Hydrogen Plant for generator cooling 51 Nm³/hr.
- Testing & Commissioning of AD Condensate System.
- Testing & Commissioning of AE System Feed Water System.
- Testing & Commissioning of AF System Extraction Steam & Heaters vent & Drain System.
- Testing & Commissioning of SB Reboiler System.
- Testing & Commissioning of SD boiler feed pump turbine (Sulzer Pump) & (Siemens turbine).
- Testing & Commissioning of FOI Solar system.
- Testing & Commissioning of FO Mazout system.
- MED Multiply Effect Desalination (Abu Qir Thermal Power Plant 2x650MW): Testing & Commissioning of Aquatech Desalination plant (2 units 5000 m³/day per unit).

Dates : From Nov. 2011 till Mar. 2012
Employer : El Sewedy Electric PSP
Job title : Junior Mechanical Engineer
Job Description :

- Al-Ain El-Sokhna Supercritical Thermal Power Plant 1300MW (as VEOLIA subcontractor CP-111): Steam blowing for MED Multiply Effect Desalination (2 unit 4000 m³/day per unit).
- General Company for Petroleum (Ras Gharib), Hurghada: Commissioning of Mitsui gas turbine 5MW.