

104866-MEC-14MOS-E-2009

Mechanical Maintenance Manager

Holds a B. Sc. in Production Engineering & Mechanical Design and has about 14 years' experience in Operation & Maintenance, LOTO, PTW Coordinator, Steam Cycle Power Plants, Combined Cycle Power Plants (CCPP, HRSG, GTG, STG, ACC), Petrochemicals and Complex Fertilizer.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 24/05/1986
Gender : Male
Marital Status : Married
Residence : Currently Iraq

EDUCATION

: B. Sc. in Production Engineering & Mechanical Design, Menoufia University, 2009

LANGUAGES

Arabic : Native Language
English : Very Good

COMPUTER SKILLS

: Windows, MS Office, Internet
: AutoCAD (2D & 3D), Solid Works and any relevant CAD software
: Computer numerical control (CNC) Machines: Turing, Milling, Drilling, Wire cutting, Spark cutting machines
: C++ (self-learning)
: ANSYS

TRAINING COURSES AND CERTIFICATIONS

: Performing Authority "Permit to Work systems" (PTW) and "LOCK OUT TAG OUT" (LOTO).
: Course in Medical First Aid certified.
: Course in Personal Safety and Social Responsibilities certified.
: Courses attended at Nubaria:

- On-shore training of ALSTOM (HRSG) operation.
- On-shore training of steam turbine operation MITSUBISHI.
- On-shore training of gas turbine SIEMENS V94.3 A, each one produce 250MW.
- On-shore training of high and medium voltage (500KV/220KV/6.3KV).

- Operation on-shore training of ALSPA P320 distributed control system (DCS) by ALSTOM Company.
- : Trainings at Ezz Company for steel (Jul. 2007 & Aug. 2008).
- : Training at Alexandria Petroleum Company.
- : Training at Mercedes Benz Company in 6th October.
- : Training at Elmasria for copper in Alexandria.
- : Training at Coca-Cola Company in Alexandria.
- : Training course for mechanical and electrical engineering, SYRIAN ARAB REPUBLIC – TISHREEN UNIVERSITY (Jul./Aug. 2008).
- : Conventional Machining & Welding at IMC.
- : Project Management using MS Project.
- : Engineering Statistics using Minitab.
- : Arab Petroleum Pipelines Company (SUMED), SIDI KRIR, ALEX (Jul. 2006):
 - Overview of the company system and the processes control.
 - Overview of the different types of pumps and their maintenance.
 - Overview of the different types of valves and their maintenance.
 - Overview of the firefighting system.
 - Having a session about the safety precautions.
- : Power Generation Engineering and Services Company (PGESCO), SIDI KRIR, ALEX (Jul. 2007):
 - Overview of the process of electricity generation.
 - Overview of each component in the station.
 - Overview of maintenance of the station.
- : Attending several sessions in human development, communication skills presentation skills & leadership skills.
- : Attending several seminars in OIL & GAS industry, refrigeration, cooling and mechanical specification.

CHRONOLOGICAL EXPERIENCE RECORD

Dates : From Aug. 2022 till now
Employer : KEPPT O&M – SIEMENS
Project : IRAQ – BASRAH Al-Rumaila 730MW CCPP
Job title : Mechanical Maintenance Manager
Job Description : Experience in BFS for all maintenance activities management.

Dates : From Jan. 2022 till Jul. 2022
Employer : J&P - AVAX S.A.
Project : IRAQ – BASMAYA POWER PLANT PHASE III
 (Contains 2 Blocks Total Power of 1600MW)
 One Block Components:

- 2 GE Gas Turbines: 2 x GE-9FA-265MW up to 280MW.
- 2 HRSG: John Cockerill Vertical 2P:
 - HP Steam: 85 barg / 535 C / 400 T/h.
 - LP Steam: 7 barg / 280 C / 36 T/h.
- 1 Steam Turbine: GE D202, 265MW up to 280MW & H53 Gen.

Job title : Mechanical Commissioning & Maintenance Engineer
Job Description :

- All HRSG comm & maintenance activities.

- Condensate sys comm & maintenance activities.
- Closed Cooling sys commissioning activities.
- BFWP comm & maintenance activities.
- Recirculation Pump comm & maintenance activities.
- Service Gas sys comm & maintenance activities.
- Compressed Air sys comm & maintenance activities.
- ACC comm & maintenance activities.
- Guillotine Damper & Diverter Damper comm & maintenance activities.
- Drain Pot sys comm & maintenance activities.
- STG all comm activities (EH oil, Lifting oil, Seal oil, Lube oil) and GEN comm & maintenance activities.

Dates : From Jul. 2021 till Jan. 2022
Employer : ELSEWEDY ELECTRIC PSP
Project : ASSIUT SUPERCRITICAL POWER STATION 1x650MW GAS/OIL FIRED BOILER
Job title : Shift Charge Engineer
Job Description :

- Responsible for SUFP and BFTPS.
- Aux Boiler. Thermax Type, Solar Fire.
- Closed cooling pumps, Service water pumps, Circulating water pumps, Dime water pumps, Raw water pumps, and condensate water pumps.
- Responsible and coordinated all operational activities of AUX BOILER from DCS and LOCAL.
- Responsible for and coordinated all operation activities to H2 STATION.
- Responsible for and coordinated all operation activities for ATLAS COPCO air compressors.
- Make all tests for Run back, load rejection, and House load.
- Make a list for performance test troubleshooting.

Dates : From Nov. 2020 till Jul. 2021
Employer : ANSALDO CALDAIE (AC BOILERS S.p.A)
Project : ASSIUT SUPERCRITICAL POWER STATION 1x650MW GAS/OIL FIRED BOILER
Job title : Mechanical Commissioning & Maintenance Engineer
Job Description :

- For Boiler Commissioning procedure:
 - Air Leakage Test.
 - Hydro Testing of Boiler.
 - Readiness of Boiler Auxiliaries.
 - Gas Distribution Test (GOT).
 - Alkali Boil-Out and First Stage Passivation.
 - Acid Cleaning and Second Stage Passivation.
 - Steam Blowing of Critical Piping.
 - Boiler Light up.
 - Safety Valve Floating.
 - Initial Firing Test by Natural Gas and Solar Distillate Oil.
 - Load Tests Like Load Rejection, House (Island) Load & Ramp Rate, and Load Runback.
 - Monitoring and Careful Follow-up of All Systems for the Supercritical Boiler, and its Auxiliaries in Normal and Abnormal Operations.

- Preparing Daily Technical Reports about the Unit Activities.
- Preparing Daily Load Profile Curve on Excel Sheet.
- Preparing Daily Boiler Defect List on Excel Sheet and Following the Problem with Our Team (Mech, Elec or I&C) Until Solving the Problem.
- Preparing Unscheduled Outage List by Excel Sheet and Preparing RCA for Systems and Components Troubleshooting & Malfunctions.
- For Boiler Maintenance Outage procedure:
 - Make all LOTO & PTW by authorized persons as coordinated with the operation department.
 - Make all equipment OFF.
 - Internal furnace inspection (Economizer, Superheater Tubes, Reheater Tubes, Water wall - Tubes and Roof Tubes).
 - Check FDF, GRF, Booster Fans, Aux Fans, cooling and Sealing Fan Motors and Suction, Discharge Dampers (Inspection on D.E area and Shaft Seal - Washing and cleaning the impeller - Check oil for overrunning clutch - Check Grease Motors Bearings & Suction Dampers).
 - Inspection of All Air Heater Baskets (Hot, Intermediate, Cold).
 - Clean and wash all air heater baskets.
 - Inspection Air Heaters Free Wheels & Fluid Coupling & Gear Boxes & Air Motors Oil.
 - Check RAH Leakage Control Sys V&H.
 - Inspection of Air Heater Guide and Support Bearings Oil.
 - Check all NAT GAS Valves-Internal Parts.
 - Cleaning Solar & Mazout Oil Filters.
 - Cleaning All Fuel Oil Pump Self-Cleaning Filters.
 - Check Soot Blower, Motor, and Packing.
 - Check All Manual & Control Valves Packing and Gland Positions.
 - Inspection of All Expansion joints.
 - Check All Air & Gas Dampers Link.
 - Check All Firefighting Deluge Valves.
 - Check Additive Mazout Sys.
 - Check Drum, Storage Tank Manhole Gasket.
 - Check All Burners Air Registers, Oil Guns, Flame Scanners, and Igniters.

Dates : From Jun. 2019 till Nov. 2020

Employer : West Delta Electricity Production Company (WDEPC)

Project : Abu Qir SUPCRITICAL POWER STATION 2x650MW GAS/OIL FIRED BOILER

Job title : Shift Charge Engineer

Job Description :

- Responsible for shift operation (2x650MW) Mitsubishi steam turbine and AC Boiler.
- Safe unit start-up, shutdown, normal operation, load management, and handling of various emergencies during normal operation.
- DCS operation process.
- Mitsubishi steam turbines start-up and normal operation and its auxiliary process including vacuum system, seal oil, lube oil, and control oil.
- AC Boiler start-up, normal operation and shut down, and its auxiliaries process including combustion air system, air heater, gas, heavy fuel system, and gas recirculation system.

- Auxiliary units' operation and process including BFP, TBFP, condensate system, and service water.
- Line up for (lube oil, control oil, air, fuel line, and air instrument).
- Handle emergency situations of desk operation confidently & continuously.
- Monitor parameters of desk operation.
- Performance monitoring of boiler & turbine.
- Implemented Standard Operating Procedures and equipment LOTO.
- Procedures of a power plant as per international standardization organization.
- Performing the functions of troubleshooting and breakdown preventive, and corrective maintenance for reducing downtime.

Dates : From Dec. 2018 till Jun. 2019
Employer : PGESCO
Project : Fertilizers Complex in Sokhna (FCS)
Job title : Mechanical Commissioning & Maintenance Engineer

Dates : From Apr. 2018 till Dec. 2018
Employer : ORASCOM CONSTRUCTION
Project : Assiut Combined Cycle Power Plant 1500MW
Job title : Mechanical Commissioning & Maintenance Engineer
Job Description :

- Following the activities of HRSG chemical cleaning.
- Following the activities of HRSG steam blowing.
- For all HRSGs first start-up and commissioning activities such as lining up, Hydro-test, flushing the lines, make function test for all valves, make solo run test for all motors, feed water pump sys, re-circulation pump sys, alignment test.
- Informing the I&C department about any defected devices or any instrumentation faults.
- Monitoring water chemistry and thus the chemical dosing rate with the recommended solutions.
- For STG activities such as lube oil flushing, control oil flushing, H2 Sys, N2 Sys, CO2 Sys.
- For BOP activities such as closed cooling sys, condensate sys, compressed air sys, firefighting sys, demine water sys, fuel gas sys.
- Make daily reports for the daily activities and reporting it to the commissioning manager.

Dates : From Jan. 2018 till Apr. 2018
Employer : ELSEWEDY ELECTRIC PSP
Project : Beni Suef Combined Cycle Power Plant 4800MW
Job title : Mechanical Commissioning & Maintenance Engineer
Job Description :

- Commissioning for SIEMENS SGT5- 8000H sys lube oil, hydraulic oil sys, fuel oil, closed cooling sys, fuel gas plant, seal oil sys, gland seal sys and firefighting sys.
- DCS Operator for BOP sys included water intake sys, raw water pump sys, service water pump sys, air compressors.
- Field Operator for HSRG.

Dates : From Dec. 2015 till Apr. 2016
Employer : Middle Delta Electricity Production Company (MDEPC)
Project : Nubaria Combined Cycle Power Station 1500MW
Job title : Control Room Operator

Dates : From Jan. 2012 till Dec. 2015
Employer : West Delta Electricity Production Company (WDEPC)
Project : Abu Qir Thermal Power Plant units 6 & 7
Job title : Mechanical Commissioning Engineer

Dates : From Nov. 2009 till Jan. 2012
Employer : EGYPTIAN AIR FORCE
Job title : Maintenance Engineer
Job Description :

- Maintenance and Inspection of Air Conditioning Equipment.
- Maintenance and Inspection of the AC Generator model (ALTERNATOR 10200).
- Maintenance and Inspection Hydraulic Parts.

Field of experience :

- Coordinate between the different parties during the project execution phase to facilitate the work flow cycle (Construction, Commissioning and Support service).
- Purchasing orders system (RTP, RFQ, PO, Reviewing Tenders and Adjudication).
- Cleaning and flushing of piping systems.
- Blowing and Gross leak test.
- Lube oil flushing.
- Chemical cleaning.
- Leak test and service test.
- Air Fan coolers.
- Familiar with "Permit to Work" (PTW) and (LOTO) systems.
- Piping fabrication and installation skills.
- Familiar with P&ID and Piping isometric drawings Attending several sessions in human development, communication skills presentation skills & leadership skills.
- Fuel gas conditioning skids.
- Mineral and synthetic oil skids.
- Ingersoll Rand air-cooled oil-free, two Stage rotary screw compressors Model No SIERRA SH150A.
- Maintenance, testing and installation for almost valve types (globe, butterfly, gate, Ball, check, blow down, safety, relief and control valves, etc.).
- Maintenance, testing, and installation of special valves of hydraulic and pneumatic.
- Make Overhaul for Reciprocating Air Compressor (HAMWORTHY).
- Make Overhaul for Many Types of Pumps (Reciprocating, screw, gear, vacuum multi-stage, and centrifugal).
- Knowledge about fire fitting systems (drencher, sprinkler, foam, fog, and CO2 central).

- Fabricate Hydraulic hoses and their fittings.
- List all the plant spare parts and defined the gap between the available and required spares.
- Prepare daily, weekly, and monthly reports.
- Identify all required tasks for each piece of equipment with respect to maintenance strategy.
- Familiar with Maintenance strategies (Reactive, preventive, predictive, and knowing about proactive).
- Review Asset P&ID and engineering documents (Data sheet, manual, etc.).
- Attending several seminars in the OIL & GAS industry, refrigeration, cooling, and mechanical specification.