

101285-MEC-1MOY-E-2008
Mechanical Maintenance Engineer

Holds a B. Sc. in Mechanical Power Engineering and has over 13 years hands-on experience, including 10 years working in maintenance and 2 years in operation at Power Plants.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 26/09/1985
Gender : Male
Marital Status : Married
Residence : Cairo

EDUCATION

: B. Sc. in Mechanical Power Engineering, Ain Shams University, 2008
: Secondary Education: Om Kalthom Experimental Language School

LANGUAGES

Arabic : Native Language
English : Very Good

COMPUTER SKILLS

: Windows, MS Office, Internet
: CMMS (Amplissima program Miglon AB, 1993-2003)
: AutoCAD 2014

TRAINING COURSES AND CERTIFICATIONS

: Diploma in New and Renewable Energy (GPA: 3.71) (Jun. 2021).
: Project Management course, Ain Shams University (2020).
: Pumping systems course (I, II, III), Schneider Electric online courses (2020).
: Change skills and continuous improvement course (2018).
: Certificate for Test of English Language proficiency (score: 650) (2018).
: Training in MCV (2007).
: Course Pipeline, Ain Shams University (2007).

CHRONOLOGICAL EXPERIENCE RECORD

Dates : From Jan. 2012 till now
Employer : Cairo Electricity Production Company

- Project** : Cairo North Power Plant (2x750MW) Combined Cycle, (2x250MW) General Electric (GE) gas turbine frame MS 9001FA, (2x250MW) MITSUBISHI Heavy Industries gas turbine frame M701F, (250MW) Hitachi steam turbine, (250MW) ALSTOM steam turbine
- Job title** : Mechanical Maintenance Engineer
- Job Description** :
- Plan and supervise short and long term preventive maintenance for GE gas turbine and auxiliary equipment.
 - Implement of preventive and corrective maintenance for 9FA Gas turbine and its auxiliaries using CMMS program.
 - Ensure the quality of machine, equipment or plant maintenance operation including those carried out by third parties, is in line with reference standards.
 - Repairing and overhauling of mechanical equipment such as various pumps, Heat exchangers, valves and fans.
 - Analyzing the failure of mechanical equipment and removal of bottlenecks in maintenance procedures.
 - Planning and successful execution of annual turnaround with proper manpower, material, spare parts and new equipment.
 - Monitor and conduct inventory on actual spare parts stock on hand and insure proper storage of spare parts.
 - Procurement and evaluate of needed spare parts and tools for overhauling and regular maintenance use and proper coordination with the procurement department.
 - Additional work:
 - Mitsubishi gas turbine (frame M701F, 2x250MW):
 - ❖ Unit (2) GT Hot gas path inspection (March 2022).
 - ❖ Unit (2) bypass damper blade, overhaul maintenance by welding and replacing for damaged parts (10 days, Oct. 2021).
 - ❖ Unit (2) GT combustion inspection (Dec. 2020).
 - ❖ Unit (1) GT combustion inspection (Sept. 2020).
 - ❖ Unit (2) GT and generator overhaul inspection (March 2019).
 - ❖ Unit (1) GT and generator overhaul inspection (Jan. 2019).
 - ❖ Unit (2) GT combustion inspection and gas turbine hydraulic bypass system replacement and commissioning (February 2018).
 - ❖ Unit (1) GT combustion inspection and gas turbine hydraulic bypass system replacement and commissioning (January 2018).
 - ❖ Unit (1) GT combustion inspection (May 2017).
 - ❖ Unit (2) GT combustion inspection (April 2017).
 - ❖ Unit (2) GT Hot gas path inspection (April 2016).
 - ❖ Unit (1) GT Hot gas path inspection (March 2016).
 - ❖ Unit (2) GT axial flow compressor corrective inspection (Nov. 2015).
 - ❖ Unit (1) GT axial flow compressor corrective inspection (Oct. 2015).
 - ❖ Unit (2) GT combustion inspection (April 2015).
 - ❖ Unit (1) GT combustion inspection (March 2015).
 - ❖ Unit (2) GT combustion inspection (September 2012).
 - General Electric Gas turbine (Frame MS9001FA, 2x250MW) inspection:
 - ❖ Customer lead TA day shift for Unit (4) generator major

- ❖ overhaul inspection and rotor repair (Oct. 2020).
- ❖ Customer lead TA day shift for Unit (3) GT Major Overhaul inspection and package 5 upgrade and new rotor replacement (Sept. 2020).
- ❖ Customer lead TA for Upgrade Unit (3) GT combustion system from DLN 2.0 to DLN 2.6+ (March to April 2017).
- ❖ Customer Lead TA night shift Unit (3) GT corrective Major Overhaul inspection (Feb. 2017).
- ❖ Customer Lead day shift TA Unit (3) GT Hot gas path inspection (October 2016).
- ❖ Customer Lead day shift TA for Unit (4) GT Hot gas path inspection (September 2016).
- ❖ Unit (3) GT combustion inspection (October 2015).
- ❖ Unit (4) GT combustion inspection (June 2015).
- ❖ Unit (3) GT combustion inspection (June 2014).
- ❖ Unit (4) GT Major Overhaul and combustion system Upgrade to (9FA+e DLN 2.6) (from September to November 2013).
- ❖ Unit (3) GT Major Overhaul (January to April 2013).
- Hitachi steam turbine and auxiliaries:
 - ❖ Overhaul maintenance for Hitachi steam turbine and generator 250MW (October 2019).
 - ❖ Overhaul maintenance for Hitachi steam turbine 250MW (combined HP valves, combined IP valves and LP valves) (Jan. 2019).
 - ❖ Overhaul maintenance for closed cooling system pumps and plate type heat exchangers (Alfa Laval) (volume: 1410 liter).
 - ❖ Overhaul maintenance for raw water pump (deep-well multi stage centrifugal turbine pump, power: 30hp).
 - ❖ Overhaul maintenance for service water pump (vertical suspended centrifugal pump, power: 310hp).
 - ❖ Overhaul maintenance for closed cooling water pump (horizontal, overhung centrifugal pump, power: 670hp).
 - ❖ Overhaul maintenance for condenser debris filter mechanism.

Dates : From Aug. 2009 till Dec. 2011

Employer : East Delta Electricity Production Company

Project : Ayoun Moussa Power Station

Job title : Operation Engineer (Siemens steam turbine 2x320MW)

Job Description :

- Operation and hot & cold start-up of boiler & turbine.
- Handle emergency situations of desk operation confidently & continuously monitoring parameters of desk operation.
- Performance monitoring of boiler & turbine.
- Implemented Standard Operating Procedures, equipment lockout and tag out procedures of power plant as per international standardization of organization.
- Performing the functions of troubleshooting and breakdown / preventive / corrective maintenance for reducing downtime to minimum.

Dates : From Apr. 2009 till Aug. 2009

Employer : The Arab Organization for Industrialization