

102169-MEC-18GMY-E-2002

Mechanical Maintenance Engineer

Holds a B. Sc. in Mechanical Power Engineering and a Diploma in Thermo Fluid for Mechanical Engineering. Has over 13 years hands-on experience working as Maintenance Engineer at Power Plants.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 15/08/1979
Gender : Male
Residence : Cairo

EDUCATION

: B. Sc. in Mechanical Power Engineering, Helwan University, 2002
: Diploma in Thermo Fluid for Mechanical Engineering, Al-Azhar University, 2007

LANGUAGES

Arabic : Native Language
English : Very Good

COMPUTER SKILLS

: Windows, MS Office (Word, Excel, Power Point), Internet
: AutoCAD
: Corrective Maintenance program (C.M.)
: Predictive Maintenance program (P.M.)

TRAINING COURSES AND CERTIFICATIONS

: Tribology: Science of lubrication to avoid wearing & Corrosion.
: Pipe lines system.
: Gas turbine.
: Refrigeration and air condition equipment and selection.
: Summer trainings at:

- Cairo Oil Company (Jul. 2001):
 - Methods of water treatment from lubricating oil.
 - Maintenance of pump.
 - Design & maintenance of heat exchanger.
- Arab Contractors (Jun./Jul. 2003):
 - As Technical Engineer: Responsible for mechanical contracting and tendering.

- As Mechanical Engineer: Supervising for HVAC system, Fire fighting system and mechanical erection in the organization of Investment Building project.
- : Courses in Shoubra El-Kheima Power Plant Training Institute:
 - Operation unit system on cold start and hot start (Mar. 2004).
 - Operation unit system in black start (Jun. 2004).
 - Useful lessons from unit trips (Jan. 2005).
 - Certificate of achievement in recognition of successful completion of the Shoubra El-Kheima Power Plant (Basics and site specifics training course, constituting a program of concentrated study of power plant equipment and system theory and application) (from Mar. till Jul. 2005).
 - Vibration monitoring (measurements, analysis and control) (Nov. 2005).
 - Balancing of rotating machines (Dec. 2005).
 - Adjustment and alignment of rotating shafts (Feb. 2006).
- : Training courses in Cairo North Power Plant:
 - Quality management and program systems (Feb. 2007).
 - Qualifying and preparation for ISO 9001/ 2008 (May 2010).
- : Training course in Safety Department Institute (Jun./Jul. 2010).
- : Training course at Siemens, Karlsruhe – Germany, in D.C.S. control system (SPPA- T3000) (Oct. 2007).
- : Training Course in Occupational Safety and Health Administration (OSHA) Construction (CFR 1926) with Mitsubishi Heavy Industries (Jan. 2014).

CHRONOLOGICAL EXPERIENCE RECORD

Dates : From Apr. 2017 till now
Project : CAIRO SOUTH POWER PLANT (Combined Cycle 4x145MW)
Job Description : Supervising for re-changed the high pressure evaporator tubes (unit 4).

Dates : From Jul. 2011 till Apr. 2017
Project : CAIRO NORTH POWER PLANT (Combined Cycle 2x750MW)
Job title : Mechanical Maintenance Engineer
Job Description :

- Heat Recovery Steam Generation (HRSG).
- Water Treatment System.
- Supervising for re-changed the main steam valves, hot reheat valves, and feed water valves (units 3 & 4).
- Sharing in overhaul inspection for Mitsubishi gas turbine unit 1 (250MW) model 701F (Jul. 2011).
- Sharing in overhaul inspection for Mitsubishi gas turbine unit 2 (250MW) model 701F (Nov. 2011).
- Sharing in combustors inspection for Mitsubishi gas turbines unit 1 (250MW) model 701F (Nov. 2012).
- Sharing in combustors inspection for Mitsubishi gas turbines unit 1 (250MW) model 701F (Dec. 2012).
- Sharing in turbine inspection for Mitsubishi gas turbines unit 1 (250MW) model 701F (Dec. 2013).
- Sharing in overhaul inspection for General Electric gas turbines unit 3 (250MW) frame 9001F (Jan. 2013).
- Sharing in overhaul inspection for General Electric gas turbine unit 2 (2x250MW) frame 9001F (Sep. 2013).

- Supervising for the General Electric gas turbine construction of new firing system (Dry Low Nox-DLN 2.6+) unit 2.

Dates : From Jan. 2004 till Jul. 2011

Employer : CAIRO ELECTRICITY PRODUCTION COMPANY

Project : SHOUBRA EL-KHEIMA POWER PLANT (steam generation 4x315MW)

Job title : Mechanical Maintenance Engineer

Job Description :

- Have a good experience in:
 - Rotating Machines, such as:
 - All types of pumps:
 - Centrifugal, mixed and axial pumps (single and multistage).
 - Positive displacement pumps (piston, diaphragm and gears).
 - All types of fans:
 - Forced draft fans.
 - Gas recirculation fans.
 - Induced draft fans.
 - Ventilation fans.
 - Compressors:
 - Centrifugal Compressor.
 - Axial Compressor.
 - Stationary Machines, such as:
 - Boiler inspection and its components as Ansaldo, C.E (environmental utility boiler (E.U.B)), Foster Wheeler & Mitsubishi Designs.
 - Pipeline (inspection and repair for Super heaters, reheat and Water Walls).
 - Air preheaters.
 - Steam air heaters.
 - Heat Exchangers.
 - All types of valves: manual, motorized, control, safety and Relief valves.
 - Gears, friction bearing and antifriction bearing.
 - Mechanical seal (selection and maintenance).
 - Burners:
 - Natural gas burners.
 - Diesel burners.
 - Heavy oil burners (mazout & crude oil).
 - Mechanical & steam atomizing burner.
 - Return flow & tilting burner.
 - All Vibration Analysis and Measurements:
 - All causes of vibration.
 - Balancing of rotary machines.
 - Alignment of rotary machines.
- Some experience for workshop machining.
- Specialist in maintenance equipment in Shoubra El-Kheima Power Plant, sharing in:
 - Re-changed the lower bearing of air pre-heaters for units 2 & 4.
 - Re-changed the forced draft fan for unit 2.
 - Re-changed the gas recirculation fan for units 1 & 3.
 - Re-changed some of axial and floating journal Bearing.
 - Life assessment with Ansaldo Caldaie (UT, MT & Replica Tests) for

- unit 3.
- Rehabilitation and new erection for water walls & super heaters for units 1, 2 and 4.

Further experiences:

Dates : From Nov. 2014 till Mar. 2015
Employer : Power Equipment and Material Company (PEMCO), SAUDI BRANCH
Project : Shoaiba Power Plant (KSA), 14x400MW
Job Description : Supervising for boiler annual inspection (C.E (environmental utility boiler (E.U.B)) of units 1, 2 & 3 - Stage one - phase one and units 4 & 5 - phase two.

Dates : Mar./Apr. 2014
Employer : Power Equipment and Material Company (PEMCO), SAUDI BRANCH
Project : Ghazlan Thermal Power Plant (KSA): 4x450MW Reilly Design & 4x650MW Mitsubishi Design
Job Description :

- Supervising for boiler annual inspection (Reilly manufacture) of unit (3) - Stage one.
- Supervising for boiler annual inspection (Mitsubishi manufacture of unit (8) - Stage two.

Dates : Feb./Mar. 2014
Employer : Power Equipment and Material Company (PEMCO), SAUDI BRANCH
Project : Shoaiba Power Plant (KSA), 14x400MW
Job Description : Supervising for boiler annual inspection (C.E (environmental utility boiler (E.U.B)) of units (units 1 & 5 - Stage one).

Dates : From Nov. 2012 till Feb. 2013
Employer : Power Equipment and Material Company (PEMCO), SAUDI BRANCH
Project : Shoaiba Power Plant (KSA), 14x400MW
Job Description : Supervising for boiler annual inspection of units (units 4 & 5: stage one – phase two & unit 11: stage two).

Dates : From Dec. 2011 till Feb. 2012
Employer : Power Equipment and Material Company (PEMCO), SAUDI BRANCH
Project : Shoaiba Power Plant (KSA), 14x400MW
Job Description : Supervising for boiler annual inspection of units (unit 3: stage one – phase one & unit 5: stage one – phase two).

Dates : From Dec. 2009 till Feb. 2010
Employer : Power Equipment and Material Company (PEMCO) – ALSTOM (SAUDI BRANCH)
Project : Rabigh Power Plant (KSA), 6x250MW
Job Description : Supervising for boiler annual inspection of unit 5: stage two.

Dates : From Jan. 2009 till Oct. 2009
Employer : Electricity De France (EDF), boat system, with Egyptian Operating Company (EOC)
Project : Suez Gulf Power Plant (2x360MW)
Job Description : Senior of Mechanical Maintenance Department (Steam Turbine, Boiler & desalination) & Technical Support Engineer.

Dates : From Jan. 2008 till Apr. 2008
Employer : Power Equipment and Material Company (PEMCO) – ALSTOM (SAUDI BRANCH)
Project : Shoaiba Power Plant (KSA), 11x400MW
Job Description : Supervising for boiler annual inspection of four units (units 1, 2, 3: stage one – phase one & unit 4: stage one – phase two).

Dates : From Jun. 2007 till Jan. 2008
Employer : THYSSENKRUPP XERVON (power plant performance)
Job Description : Supervising for installing new equipment in Shoubra El-Kheima Power Plant (dampers, actuators, valves, cylinders, Natural gas igniters).

Job Description : Training Works with ISCOA - JEDDAH (SAUDI ARABIA): Basics and Site Specifics of boiler (steam generator) and Tube Failure Operation & Maintenance.

Job Description : Training Works with International Center for Management and Development - JEDDAH (SAUDI ARABIA): Water Treatment Plant and Desalination (Operation & Maintenance).