

102280-MEC-19CHMQY-E-2000

Rotating Equipment Mechanical Engineer

Holds a B. Sc. in Mechanical Power Engineering and has about 22 years experience, including 16 years working in Power Plant projects in Egypt. Certified Inspector for NDT using PT, MT, UT from ASNT Level 2, and has experience in pipelines welding inspection and bearings inspection, shafts inspection. Has also experience in fire fighting systems design & installation.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 11/07/1978
Gender : Male
Marital Status : Married
Residence : Dokki, Cairo

EDUCATION

: B. Sc. in Mechanical Power Engineering, Banha University, 2000

LANGUAGES

Arabic : Native Language
English : Very Good

COMPUTER SKILLS

: Windows, MS Office (Word, Excel, Power Point), Internet
: Elite Fire, HAP, ASHRAE Duct Fitting Database, Pipe Work
: Revit MEP, AutoCAD (2D & 3D), INVENTOR 3D, Bentley Microstation
: MS Project
: Adobe Photoshop

TRAINING COURSES AND CERTIFICATIONS

: ASNT Non-destructive testing Course Level 2:

- Liquid Penetrant Testing (LPT).
- Magnetic Particle Testing (MT).
- Ultrasonic Testing (UT).
- Radiographic Testing (RT).

: Fire Protection Systems Design using (Pipe Schedule & Hydraulic Calc.) using "Fire-Elite" program, Fire Extinguish, FM200, Foam systems:

- Power Stations.
- Advanced Heat Transfer.
- Advanced Thermodynamics.
- Advanced Measurement Devices.

- Energy System Components.
- Advanced Fluid Mechanics.
- Turbo-machinery Systems.
- Mechanical Design.
- : Fire Protection Systems Design:
 - Pipe Schedule Method.
 - Hydraulic Calculation using "Fire-Elite" Program.
 - Co₂, FM200, Novec Systems.
 - Foam-water Systems.
- : At CAIRO NORTH Power Station Training Center:
 - Maintenance of GAS Turbines (GE - MS9001FA).
 - Operation of GAS Turbines (GE - MS9001FA).
 - Gas Turbine & Generator Protections.
- : At CAIRO WEST Power Station Training Center:
 - "KKS" identifying coding system for power stations.
 - Operation & Maintenance of Steam Turbine & Auxiliary Equipment.
 - Maintenance of "Lube oil pumps" & "Valves" & "Closed cooling pumps".
- : HVAC Systems Design:
 - HVAC system design using HAP 4.61.
 - Fan Coils / AHU / Chiller selection.
 - Duct design using "Equal Friction Method".
 - Static Pressure Calculation using "ASHRAE Duct Fitting Database".
 - HVAC system Pressure Balancing.
 - Water Pipe system design using "Pipe Work" software.
- : REVIT MEP 2014 (3D Modeling & Analysis for MEP systems).

CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From 2006 till now
- Employer** : Cairo Electricity Production Co. (CEPC)
- Job Description** :
- SHOUBRA EL-KHEIMA Power Station (Rotating Equipment Mech. Engineer):
 - Steam Turbine Major Inspection Jan. 2020 & alignment using Easy-Laser.
 - Prepare & execute the preventive maintenance schedule.
 - Maintenance of all Rotational machines (Turbines, pumps, compressors).
 - Maintenance of water chemical treatment systems.
 - 6th Oct. Power Station (Senior Mechanical Engineer):
 - Prepare the preventive maintenance schedule.
 - Maintenance of ANSALDO Gas Turbines AE 94.2:
 - Turbine Repair & Replacement of Anti-Rotation Pins for Turbine Blades Discs.
 - HOT GAS PATH INSPECTION.
 - Combustion Chamber inspection (Replacement of CC. Tiles).
 - Minor inspections of 4 GTs.
 - Inspection of Lube oil Pumps, Lift oil pump, Closed Cooling Water Pumps, Vertical Sump pumps, Fuel oil pumps, Fin fans coolers, Air compressors and Firefighting Pumps.
 - Alignment adjust of pumps & motors using Easy-Laser D550 & dial indicators.

- Vibration inspection for all pumps and motors.
- Maintenance of Filter & Demi water treatment system.
- NDE using UT & LPT.
- Maintenance of HVAC systems.
- Prepare the spare parts lists for GT systems & BOP.
- Inspect the received spare parts for GT systems & BOP.
- Giza NORTH Power Station (Combined Cycle Project – 2250MW) (Site Project Engineer):
 - Review the Technical Specifications required for the bidding according to ASME & ASTM & API & NFPA standards.
 - Review the Technical Analysis Evaluation for the submitted bids.
 - Supervision of the pre-awarding Negotiation meetings & discuss all the technical pending issues to get the optimized final agreement.
 - Review the final agreement contract.
 - Supervision of applying the contract in all phases.
 - Approve the submitted Technical Data & Drawings for the equipment as per contract.
 - Approve the Material Receiving Reports (standard certificates & inspection for the delivered equipment).
 - Supervision of installing the equipment & piping for the mechanical systems in the project.
 - Supervision for design / installation / testing of FIRE FIGHTING systems for:
 - Turbines building, Diesel Generator room.
 - Electrical Switchgear room, Electrical Transformers.
 - Control Room, Relay room (I&C).
 - Oil-Barrel Storage Area, Gasoline station.
 - Supervision for inspection of:
 - Natural Gas Pipeline welding using UT & RT.
 - Liquid fuel Pipeline welding using UT & RT.
 - Steam Condenser welding inspection using LPT.
 - CW (RCC) pipelines welding inspection using LPT.
- CAIRO NORTH Power Station (GE gas turbines 9FA DLN 2.1 upgraded to DLN 2.6) (Inspection / Maintenance Engineer):
 - Prepare & execute the preventive maintenance schedule.
 - Work with Computerized Maintenance Management System.
 - Maintenance of GE Gas Turbine (2x250MW) (MS9001FA):
 - R-0 Replacement for Axial Compressor.
 - Combustor inspection (Replacement of 18 combustors).
 - Turbine inspection (Replacement of blades for 1st & 2nd rows).
 - Lube oil Pumps Inspection, Closed Cooling Water Pumps Inspection and Circulating Water Pumps inspection.
 - Inspection of Pumps shafts & impellers using UT & LPT.
 - Maintenance & operation of HVAC systems.
 - Maintenance of Filter & Demi water treatment system.
- CAIRO WEST Power Station (SIEMENS, MITSUBISHI STEAM TURBINES) (Inspection / Maintenance Engineer):
 - Prepare the preventive maintenance schedule.
 - Work with Computerized Maintenance Management System.
 - Warranty Inspection of Steam Turbines (2x330MW) "SIEMENS".
 - Maintenance of "Lube oil pumps" & "Lifting pumps" & "Exhaust Fans".
 - Maintenance of Vertical pumps "CW pumps" & "Service water

- pumps".
- Maintenance of Horizontal Pumps "Filter water & Demi water & CCW pumps".
- Maintenance of "Feed water pumps" & "Main condensate pumps".
- Maintenance of "Air Compressors" & "Hydrogen compressors".
- Maintenance of "Valves" (Gate, Globe, Butterfly, Non-return valves).
- Inspection of Pumps shafts & impellers using UT & LPT.
- Inspection of Steam Turbine Bearings & Bolts & Valves using LPT & UT.
- Maintenance & operation of FIRE FIGHTING systems.

Dates : From 2002 till 2006

Employer : KABBARY TECHNOLOGY (self-employed)

Job title : Installation / Maintenance Engineer

Job Description : Installation & Maintenance of the new crossed-field systems at EGYPT, ENGLAND and CHINA:

- EGYPT: Installation & maintenance of 4 CFAs Structures (TANTA, BARNIS, HALIEB, Alexandria).
- ENGLAND: Installation & maintenance MW-CFA Structure in (SILSDEN – YORKSHIRE). Design & installation of CFA Structure in (Shefnal - SHROPSHIRE).
- CHINA: Installation & maintenance of CFA Structure in NANJING Radio Station.

Dates : From 2000 till 2002

Employer : Banha University

Job title : Instructor

Job Description : Instructor for mechanical engineering courses: Power Stations, Heat Transfer, Fluid Mechanics, Gas Dynamic and AutoCAD drawing, Engineering Management.