

Holds a B. Sc. in Mechanical Engineering and has about 17 years of experience in Steam & Combined Cycle Power Plants Maintenance & Installation, Commissioning and start-up for Steam Turbine.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 03/03/1978
Gender : Male
Marital Status : Married
Residence : Giza, Cairo

EDUCATION

: B. Sc. in Mechanical Engineering, Menoufia University, 2004

LANGUAGES

Arabic : Native Language
English : Fluent

COMPUTER SKILLS

: Windows, MS Office (Word, Excel), Internet

TRAINING COURSES AND CERTIFICATIONS

- : Shoubra El-Kheima Power Plant Training Center (Feb. 2007 – Jun. 2007):
 - Basics and site specific training courses, constituting a program of concentrated study of power plant equipment and systems theory and application.
 - Maintenance of steam power plant and combined cycle power plant.
 - Basics and site-specific training courses constituting a program of concentrated study of power plant equipments and system theory and application.
 - Cold and hot operation of steam generating unit.
 - Lessons learned from units shut-down cases.
 - Operation in the darkness case.
- : Boiler operation - El-Tebbin 2x350MW Gas/Oil Fired Boilers, Ansaldo Caldaie, Italy (Sep./Oct. 2009).

CHRONOLOGICAL EXPERIENCE RECORD

Dates : From Sep. 2006 till now
Employer : CEPC
Project : Shoubra El-Kheima Power Plant (4x315MW)
Job title : Maintenance Engineer for boiler 1072 ton steam
Job Description :

- Maintenance for (FD fan – GR fan – booster pumps – burner pumps – valves – burner – soot blowers – air pre heaters – Erection of pipes, ...etc.).
- Inspector and erection for rehabilitation (water walls, primary, secondary, tertiary super heaters and reheat, economizer, air preheaters).

Dates : From May 2006 till Sep. 2006
Employer : Orascom Construction Industries (OCI)
Project : Helwan Fertilization Company
Job title : QC Engineer
Job Description :

- Inspection for pipes, spools and its accessories like (valves, flanges, orifice flanges,etc.).
- Welding activities under (WPS, PQR) specification.
- Check up for leveling steel structure for areas (213, 110, 220).
- Check up for alignment of pumps.

Dates : From Jun. 2005 till May 2006
Employer : Segull for boiler general contracting
Project : Cairo North Power Station II (750MW)
Job Description :

- Erection for pipes, spools and its accessories like (valves, flanges, orifice flanges,etc.).
- Welding activities under (WPS) specification.
- Check up for leveling, alignment.
- Carry out all test packs, punch until release.
- Monitoring and applying safety instructions.

Dates : From Jul. 2004 till Mar. 2005
Employer : DSD
Project : Ammonia Tanks (Ain Sokhna)
Job title : QC Engineer
Job Description :

- Erection for pipes, spools and its accessories like (valves, flanges, orifice flanges,etc.).
- Welding activities under (WPS, PQR) specification.
- Check up for leveling, steel structure for tanks.

Further experiences :

- Re-change water wall at unit four (320MW): Properties: Temp. = 540° and P. = 180kg/cm², size tubes (rabead tube) diameter = 205 inch thickness, thick = 68mm mm Re-change four side at level zero to 27m and surface cleaning and check wall thick up to level 27m and check all welding (x-ray) and (U.T), (P. T) ultrasonic test, pant era test.
- Re-change (SH3) super heater at unit four: properties T=530°C and

P=207 kg/cm² and diameter =51mm, Size tubes inlet thick = 8mm and material ASM 213-T22, T=530°C, P=207 kg/cm², diameter =51mm, Re-changed at from header inlet to header T=546°C outlet, D=400mm, thick =120mm, Properties header inlet P=207, T=475°C, D = 370mm, thick = 82mm, Check or test (UT) and (MT) and (X-ray) all welding at point and check spool tube (UT) and (MT) and check support at coil and support header inlet and header outlet all number point welding.

- Re-change lower bearing at (air preheater) at unit (3) (315MW).
- Re-change water wall at unit (2).
- Re-change super heater primary unit (1): P = 207 kg/cm², T=555°C, thick = 63.5mm, diameter=12.5mm, Material = 213 - T22, Header inlet thick = 38mm, T=367°C, diameter = 220mm, Header outlet thick = 72mm, diameter = 370mm, T=477°C.
- Re-change water wall at unit (1).
- Modification in Shoubra El-Kheima Power Plant Company (SIEMENS) Germany and (Mechanical Erection) Company (ThyssenKrupp Xervon Energy):
 - Damper inroad forced draft fans (FDF) unit (1, 2, 3, 4), No of damper (8) re-change old damper.
 - Re-change station of soot blower.
 - Re-change T.V camera for boiler and modification closed cooling unit 1, 2, 3, 4 for T.V camera.
 - Re-change (booster fans) no. 8 fans for cooling air in flame scanner on burner.
 - Change shaft at forced draft fan (FDF).
 - Change shaft at gas recirculation fan (GRF).
 - Responsibilities for Chemical Cleaning.
 - Re-change all air preheater internal parts:
 - ❖ Change steel stratcion and body air preheater.
 - ❖ Change stiffeners.
 - ❖ Change basket.
 - Re-change natural gas burner:
 - ❖ Change manual isolation valves.
 - ❖ Change additive pumps.
 - ❖ Change orifices at booster pumps.

- Field of experience :**
- Specialist in maintenance equipment in Shoubra El-Kheima Power Plant:
 - Sharing in
 - ❖ Re-change the forced drat fan and motor.
 - ❖ Re-change some of axial and floating journal bearing.
 - Mechanical Power Engineer in Shoubra El-Kheima Power Station 4x315MW:
 - ❖ Alignment of rotary machine.
 - ❖ All types of valves for all class (manual, motorized control safety and relief valves).
 - ❖ Types of pumps single and multi stages.
 - ❖ All types of (F.D.FAN and G.R.FAN).
 - ❖ Stationary machines as:
 - Boiler inspection.
 - Pipe line inspection and repair for super heaters, reheat, water walls.
 - Air preheater.

- Steam air heater.
- Heat exchanger.
- ❖ Gears, friction bearing and antifriction bearing.
- ❖ Mechanical seal (selection and maintenance).
- ❖ Burners.
- ❖ Natural gas burners.
- ❖ Solar burner.
- ❖ Heavy oil burner "Mazout".
- Experience in rotating equipment operations & maintenance including pumps, compressors, steam turbines.
- Monitoring and trouble shooting of power plant rotating equipment.
- Maintenance of hydraulic pumps, compressors, valves and designer of special hydraulic movement systems.
- Experience in Fire fighting system and Equipment Adaptation Systems.