

Holds a B. Sc. in Mechanical Power Engineering and has over 33 years experience in consultancy, construction, installation, testing, cold commissioning, hot commissioning, start-up & maintenance for Power Stations.

PERSONAL DATA

Nationality : Egyptian
Gender : Male
Marital Status : Married
Residence : Damietta

EDUCATION

: B. Sc. in Mechanical Power Engineering, Mansoura University, 1984

LANGUAGES

Arabic : Native Language
English : Good

COMPUTER SKILLS

: Windows, MS Office, Internet

TRAINING COURSES AND CERTIFICATIONS

- : Gas turbine modern V94, 2 (SGT5-2000E) and its auxiliaries, Egypt, at Siemens AG.
- : Steam turbine and its auxiliaries, Egypt, at Gec Alsthom.
- : Heat recovery steam generator HRSG, Berlin, at Babcock Borsig AG in Berlin.
- : Permit to work regulation, general safety, Abu Dhabi, at Alsthom Power Italia.
- : Safety orientation and special training completed of safety, Jeddah South Thermal Power Project / JSTPP Project / KSA, at Hyundai Heavy Industries (HHI).
- : Steam turbine and boiler and its auxiliaries, Kuwait, at Mitsubishi Heavy Industries (MHI).

CHRONOLOGICAL EXPERIENCE RECORD

Job Description : Currently Freelance Mechanical Engineer for power generation projects / ready to join a job

- Dates** : From Dec. 2014 till Mar. 2019
From Nov. 2002 till Apr. 2006
From Feb. 1989 till Apr. 1999
- Employer** : Egyptian Electricity Holding Company
- Project** : Damietta Combined Cycle Power Plant 1200MW
- Job Description** :
- From Jun. 2015 till Mar. 2019: Senior Maintenance Engineer - Manage the mechanical section and implement the mechanical corrective, preventive and predictive maintenance and prepare the tenders and discussing clarifications with main contractor of rehabilitation projects to carry out maintenance activities with the required level of quality for heat recovery steam generators HRSGs and its auxiliaries (valves, pumps, dampers, fans etc. (6x265 ton/hr.) Manufactured by Deutsche Babcock Borsig AG (No.6 Natural Circulation Horizontal Type HRSG-Double pressure without supplementary firing), Providing advice on new problems and conducting Root Causes Analysis that will lead to effective problem solving, Working as a member team to provide efficient maintenance services within assigned area. Expect to ensure the availability of the required manpower, materials, spare parts and tools prior to assigning the work.
 - From Dec. 2014 till May 2015: Worked as Consultancy Field Engineer to supervising the site work for the Rehabilitation of the heat recovery steam generators HRSG 1 & 2 as per ASME standard, Main contractor ALSTOM Power Italia S.P.A:
 - Supervising for dismantling the old high pressure evaporators and installation new evaporators as per agreement contract and arising out of non-conformance report / NCR, punch list / PL etc. during the job observation shall be only cut one (1) down comer and welding new one in the high pressure evaporator (i.e. One by one down comer), review Non-destructive examinations NDE and the radiographic X-ray reports for all welding joints for new harps of evaporator (Nos.190 × (9+10)) etc.
 - Carried out Alkaline chemical cleaning for HRSG #2 & acid chemical cleaning double phases for HRSG #1 Inhibited hydrochloric acid HCl for a period 6 hours' maximum or observed the iron dissolved in solution reached to 8000 ppm concentration shall be drain it and performing rinse.
 - Carried out preliminary passivation and checked passivation layer about (5 to 9 μ) to protect the boiler from unwanted oxidation and checked the drum's color to be Bright. Checked properly pouring the refractory as per instructions factory.
 - Firing the boiler and made permanent passivation as per passivation pressure curve.
 - From Sep. 1996 till Aug. 1997: Mechanical Maintenance Engineer - Involved for (6x135MW) Gas Turbine type V94.2 (SGT5 – 2000E) manufactured by Siemens AG. Carrying out completed major overhauls for Gas turbine V94.2 for unit #4 and for unit #6 from May to Jun. 1997 (as per international time standard 55 days' work) Both units carried out lot modifications on their compressors & turbines as per instructions of Siemens Co. Review plant modification proposals, Carry out all maintenance works as per standard procedure and safety regulations.
 - From Jan. 1993 till Sep. 1996: Providing advice on new problems and conducting Root Causes Analysis that will lead to effective problem

solving for team work. Control and operation for (6x135MW) Gas turbine Model V94.2/SGT5-2000E Manufacture by Siemens, (6x265 ton/hr.) Heat Recovery Steam Generators manufactured by Babcock Borsig, (3x145MW) Steam turbines manufactured by GEC Alstom and its auxiliaries of plant (DCS control).

- From Mar. 1992 till Dec. 1992: Involved in testing, pre-commissioning, cold commissioning, hot commissioning and start-up of (6 x 265 ton/hr.) heat recovery steam generators HRSG manufactured by Babcock Borsig and its auxiliaries and (3x145MW) Steam turbine manufactured by Gec Alstom and its auxiliaries.
- From Nov. 1989 till Feb. 1992: Worked as Shift Charge Engineer.
- From Feb. 1989 till Nov. 1989: Involved in testing, pre-commissioning, cold commissioning, hot commissioning & start-up for (6x135MW) Gas turbine Model V94.2 (SGT5-2000E) manufactured by Siemens.

- Dates** : From May 2006 till Aug. 2014
- Employer** : Fichtner-Engineering and Consulting Co.
- Job title** : Consultancy Field Engineer
- Job Description** :
- Jeddah South Thermal Power Plant Project stage #1, KSA (from Dec. 2013 till Aug. 2014):
 - During construction first boiler: Supervision to work to Non-pressure parts (Foundations, Padding plate elevation, installation steel structure, erection of spring supports and hanger rods).
 - Supervision of pressure parts: Erection inlet and outlet reheaters was lift it by electrical mooring winch 10, 5 & 3 tons and suspension of and fix it by hanger rods.
 - Supervision of welding joints such as welding of rear wall hanger tube, Wall outlet header and front wall outlet pipe. Arising out of non – conformance reports/NCR for materials and work are not match as per contract specifications, apply welding procedure specifications/WPS, inspection test plan/ ITP, preheating and post welding heat treatment/ PWHT and review non-destructive test /NDT reports.
 - Supervision of installation heavy fuel oil tanks and crude oil tanks (6×125000 m³) which Diameter 96 meters as Per API 650 standard edition 11.
 - Supervision of erection of potable water tower tank (1×2840 m³) which 51 meters' height as per AWWA D100-11 standard.
 - At Tabouk Power Plant #2 Extension Project stage 6 in Saudi Arabia (from Jan. 2010 till Dec. 2013):
 - Supervising the site work during unloading material, installation, testing and commissioning of two (2) gas turbine (2x85MW) and its auxiliaries project / manufactured by Siemens Westinghouse power Corporation Model: W-501D5A (SGT6-2000E) manufactured by Westinghouse.
 - Carried out work for inspection WFI, arising out of non-conformance reports NCR, Inspection of receiving material IRM, reviewing the approved documents, approved drawings, P&IDs, approved isometrics drawings, issued punch list / PL, reviewing and approving as build drawing of the project.
 - Erection of two (2) diesel fuel oil storage tanks (2x15000 m³) as per API 650 standard.

- Installation of fuel oil treatment plant, Fuel oil separator Manufactured by Westfalia (3×33m³/hr.), fuel oil forwarding pumps & unloading pumps station (4×70 m³/hr.).
- Erection the fuel oil piping, Apply welding procedure specifications WPS, inspection test plan ITP, review Non- destructive examinations NDE and the radiographic X-ray reports for 10% of welding joints and carried out The hydro-milling cleaning process, installation instrument air system, fire water piping and all interfacing piping between existing Plant and extension project and demonstrate fire protection system.
- Relocation of one (1) gas turbine unit project (1x18MW) Model: 5001 Frame5 (GE) from Al-Madinah Power Plant #1 to Al-Wadjh Power Plant in Saudi Arabia (from Nov. 2008 till Dec. 2009):
 - Activities at Al-Madinah Power Plant #1:
 - ❖ Supervising to the site work inspection, reading alignment, dismantling, Lifting and loading gas turbine unit and its auxiliaries.
 - Activities at Al-Wadjh Power Plant:
 - ❖ Site supervision.
 - ❖ Unloading and erection of turbine unit GE 5001and its auxiliaries. Leveling, re-install and alignment between reduction gear and turbine & alignment turbine/auxiliary Gearbox.
 - ❖ Installation of fuel oil piping & fire water piping as per isometric drawings and standard and tested & demonstrate fire protection system.
 - ❖ Testing, Cold commissioning, hot commissioning and startup gas turbine and carried out performance test for unit as per contract (one-week reliability test), reviewing and approved as build drawings for the project.
- At Asir Power Plant (May 2006 – Apr. 2007) in Saudi Arabia:
 - Worked as Gas Turbine Mechanical Maintenance Engineer.
 - Providing advice on new problem and I conducting Root Cause Analysis that will lead to effective problem solving.
 - Worked as a member of local team to provide efficient maintenance services within assigned area and issuing punch list and sign primary accepted certificate PAC for unit #10 (for gas turbine (2x85MW) model: V84.2 (SGT6-2000E) Manufactured by Siemens AG).
 - Carrying out preventive maintenance / Routine; Corrective maintenance / trouble shooting, predictive maintenance, Minor inspection (combustion inspection CI) for gas turbine (2x85MW) model: V84.2 (SGT6-2000E) Manufactured by Siemens AG.
 - Carrying out the maintenance for fuel oil separators (4 x 70 m³/hr.) manufacture by Westfalia.
 - Involved in carrying out combustion inspection CI, hot gas path Inspection HGPI & major overhaul inspection activities for gas turbine (65MW) model: 7001EA frame-7 manufactured General Electric GE, involved in combustion inspection gas turbine (70MW) model: W501D5 Manufactured by Westinghouse.

Dates : From Jun. 2001 till Nov. 2002
Employer : Alstom Power Italia SPA / ABB Sadelmi Company
Project : Ruwais Refinery Expansion Power Generation and Desalination Project (General Utilities Plant), Abu Dhabi - UAE
Job title : Commissioning Engineer
Job Description :

- Involved in pre-commissioning, commissioning, start-up and operation of (3 x 211tons/hr. waste heat recovery boilers WHRB) & Seawater pumps; demi water plant & Hypochlorite plant.
- Involved in pre-commissioning, commissioning, start-up and operation of 2 x 650 tons/hr. multi – stages flash evaporator MSF Desalination Plant Manufactured by Fisia Italimpianti.
- Involved in pre-commissioning, cold commissioning, hot commissioning, start-up and operation of 4x145MW modern "13E2"Gas turbine manufactured by Alstom power Generation Switzerland.

Dates : From May 1999 till May 2001
Employer : Al Ghanim Company / Misr Co. for mechanical and electric projects / Kahromika Company
Project : Sabiya Thermal Power Station, Kuwait
Job Description :

- Worked as Mechanical Maintenance Engineer for steam turbine 8x300MW manufactured by Mitsubishi Heavy Industries MHI and its auxiliaries (carry out the preventive maintenance / routine maintenance, corrective maintenance, trouble shooting and predictive maintenance involved for supervising to the work Guarantee Major Overhaul inspection for steam turbines 1 & 2).
- I took part in commissioning & start-up operation of (8x300MW steam turbines & 8x920 tons/hr. Boilers manufactured by Mitsubishi Heavy Industries MHI and its Auxiliaries.

Field of experience : Worked as Mechanical Field Engineer of power generation projects carried out in Egypt, Kuwait, UAE / Abu Dhabi and KSA with experience 33+ years with fully responsibility to supervise to work and solved problems for construction, installation, rehabilitation, relocation, maintenance, completed major overhauls inspection, testing activities, pre-commissioning, cold commissioning, hot commissioning, start-up and operation for all Gas turbines, Steam turbines, HRSG heat recovery steam generator, Boilers and multi-stages flash evaporator MSF Desalination Plant.