

Holds a B. Sc. in Mechanical Power Engineering and has about 18 years hands-on experience working in maintenance, operation and commissioning at several Power Plants.

PERSONAL DATA

Nationality : Egyptian
Gender : Male
Marital Status : Married
Residence : Helwan, Cairo

EDUCATION

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

LANGUAGES

Arabic : Native Language
English : Very Good

COMPUTER SKILLS

: Windows, MS Office (Word, Excel), Internet
: AutoCAD 2 Dimension

TRAINING COURSES AND CERTIFICATIONS

- : Dubai Electricity and Water Authority (DEWA):
 - I have a certificate from GE Energy Learning Center UK for a course covering gas turbine operation and maintenance Mark VI.
 - GE Mark V Gas Turbine Maintenance Course for two weeks.
 - Fisia training course in desalination plant producing 5x14 MIGD blending plant and its sea pumping area.
- : Egyptian Electricity Holding Company (EEHC):
 - Training course for control system DCIS.
 - Training course for control system Speedtronic Mark VI of General Electric using for steam turbine.
 - Bechtel Co. training course in power operation & maintenance plant.
 - Training course for performance test to steam turbine, gas turbine and combined cycle.
- : ARABIAN BEMCO LTD: Permit to work system (PTW) course and lock-out tag out (LOTO) procedure.
- : Bemco safety training course by Scotch Lecturer.

CHRONOLOGICAL EXPERIENCE RECORD

- Project** : South Cairo Power Plant CCGT
Job title : Senior Operation Engineer
- Dates** : From May 2013 till Apr. 2016
Employer : Arabian BEMCO Contracting Co.
Project : Riyadh PP12 Combined Cycle Project
Job title : Maintenance, Commissioning & Operation Senior Engineer (Mechanical)
Job Description : GAS TURBINE FRAME: GE 7FA 0.5 (1st one in world):
- Prepare units for start and shutdown as GE procedure.
 - Alignment of valves and make water wash for units.
 - Air charging in generator casing during commissioning activities.
 - Charging generator with Hydrogen and Carbon Dioxide purge.
 - Issuer and receiver for work permits and work order as PTW system.
 - Isolation and alignment for carrying out work permits and work orders.
 - Making of daily GT status and log reports.
 - Making of general defects report for all units.
 - Perfect using for MARK VI-e CIMPLICITY.
 - Troubleshooting and clear MARK VI-e alarms.
 - Support all commissioning and maintenance activities and make isolation if need.
- Dates** : From Nov. 2012 till Apr. 2013
Employer : Saudi Electricity Company / Arabian Bemco Contracting LTD
Project : Qurayyat Power Plant Project for summer support contract (2 units GE gas turbine 7EA, Mark-VIe)
Job title : Shift Charge Leader Engineer
- Dates** : From Mar. 2012 till Nov. 2012
From Jul. 2011 till Nov. 2011
Employer : Saudi Electricity Company / Arabian Bemco Contracting LTD
Project : Riyadh PP10 (for the summer support contract) (40 units GE gas turbine 7EA, Mark VIe)
Job title : Shift Charge Engineer in block B2 (8 units) and block C1 (8 units)
- Dates** : From Nov. 2011 till Mar. 2012
From Jan. 2011 till Jul. 2011
Project : El-Shabab Power Station
Job title : Operation, Commissioning & Maintenance Engineer
Job Description :
- Handled the commissioning and start-up of 8 units x 125MW frame Ms 9001FA control by Speedtronic Mark VI.
 - Dealt directly with the Core Level Engineers in new project concerning the mechanical electrical and instrumentation and control commissioning devices.
 - Collect and analyze periodical data for commissioning.
 - Prepare commissioning start-up & shut down and testing equipment.

- Good knowledge of operation instructions by good reading of operation and maintenance manuals.
- Good supervising the circumstances of work every hour.
- All of above will be done very efficiently by good contact between control room and local operators.
- In case of start-up & shut down very important that everything in the locale must be lined up by good mechanical and electrical Isolations and removing these isolations in start-up.
- Assisted in minor inspection of GT's.
- Participated in over speed test load rejection test and various function tests of the GT's.
- Supervised the GT's reliability run test.
- Responsible for diagnosing troubleshooting and solving all Mark VI technical problems related to GT's and make alarm tracing through the control system software documentation.

Dates : From Oct. 2009 till Jan. 2011
Project : North Cairo Power Station
Job title : Shift Charge Engineer
Job Description :

- Control Room Operator responsible for operation the unit and co-ordination with maintenance the unit is GE MS 9001FA, 250MW Speedtronic Mark VI controller.
- Check and review the operating condition and records in order to investigate the weak and trouble some points in plant.
- Good mechanical and electrical isolations and removing these isolations in start-up.
- Good knowledge of operation instructions by good reading of operation and maintenance manuals.

Dates : From May 2009 till Oct. 2009
From May 2008 till Aug. 2008
Project : South Cairo Power Station
Job title : Shift Charge Engineer
Job Description :

- Worked as a Group Leader of a team of 6 Engineers and 8 Technicians at Riyadh PP9 Power Plant (for the summer support team).
- I am in charge maintaining C, D & F blocks (32 units GE gas turbine 7EA, Mark VI).
- In addition, I was responsible for fault finding and troubleshooting control problems.
- Also, I am in charge of maintenance MKVI and HMI.

Dates : From Feb. 2008 till May 2008
Employer : Arabian BEMCO Contracting Ltd. – KSA
Project : Extension of Riyadh PP9 Power Plant
Job title : Control Technical Advisor Engineer (TA)
Job Description : I was responsible for operation and maintenance by coordinating with GE team for any troubleshooting for twenty units (20x60MW) gas turbine GE Frame 7EA controlling by Speedtronic Mark VI & EX2100.

Dates : From Sep. 2004 till Feb. 2008
Employer : Dubai Electricity and Water Authority (DEWA)
Project : Combined Cycle Power Station
Job title : Operation, Commissioning & Maintenance Engineer
Job Description :

- Responsible for:
 - Three units GE gas turbines (3x250MW) MS9001FA controlled by Speedtronic Mark VI.
 - Three units Hrsg's Dosan Heavy Industries & Construction Co Ltd. with capacity 3x350 t/hr unfired, 3x720 t/hr with duct burner at pressure 95 bar and temperature 562 °C.
 - Two units auxiliary fired boilers (IHI) Ishikawajima-Harima Heavy Industries Co. Ltd (Japanese) running on NG and Diesel Oil, Capacity 550 t/h steam pressure 91 bar and temperature 564 °C.
 - Back pressure steam turbines (2x170MW).
 - Gas reduction station.
 - All the above working by Toshiba DCS.
- In charge of commissioning activities for new power station "L station". Collect and analyze periodical data for commissioning, pre-commissioning, start-up, shut down and testing equipment.
- Good knowledge of operation instructions by good reading of operation and maintenance manuals.
- Make good team work with high efficiency and activity.
- Solving any problem which appears between technicians to keep the harmony of work.
- Good supervising the circumstances of work every hour.
- In the case of start-up & shutdown that is very important that every thing in the locale must be lined up by good mechanical and electrical isolations and removing these isolations in start-up.
- All of above will be done very efficient by good contact between Control Room and the local operators.
- Board Operation Engineer:
 - Desalination Plant (4 x 7 IMGD) with AS230 DCS SIEMENS control program.
 - Gas Turbine Plant (3x113MW) with waste heat boiler (3 x 250 t/hr) and back pressure steam turbine (1x60 MW).
 - Gas Turbine Plant (2x113MW) with Heat Recovery Steam Generator (2 x 250 t/hr) and steam turbine (100MW).

Dates : From Sep. 2001 till Sep. 2004
Employer : Egyptian Electricity Holding Company (EEHC)
Project : Cairo South Combined Cycle Power Station
Job title : Shift Charge Engineer
Job Description : Control Room Operator responsible for operation the unit and co-ordination with maintenance. The unit is General Electric (GE) - Ms9001E, 115MW Speedtronic Mark IV controller. Working by the natural gas as a basic fuel and distillate as a standby fuel this gas turbine is combined cycle with one Vogt Hrsg (Germany) and one GE, 60MW Steam Turbine controlled by Speedtronic Mark V. Auxiliary's operation and communication Link by Westinghouse DCS.

Dates : From Dec. 2000 till Sep. 2001
Project : Cairo South Simple Cycle Power Station
Job title : Shift Charge Engineer
Job Description : Responsible for operation control room and co-ordination with maintenance at three gas turbines GE-Ms9001E, 115MW Speedtronic Mark IV.

Field of experience :

- Monitor power plant equipment and indicators to detect evidence of operating problems.
- Adjust controls to generate specified electrical power or to regulate the flow of power between generating stations and substations.
- Control power generating equipment, including boilers, turbines, generators, or reactors, using control boards or semi-automatic equipment.
- Regulate equipment operations and conditions, such as water levels, based on instrument data or from computers.
- Take regulatory action, based on readings from charts, meters and gauges, at established intervals.
- Start or stop generators, auxiliary pumping equipment, turbines, or other power plant equipment as necessary.
- Inspect records or log book entries or communicate with plant personnel to assess equipment operating status.
- Control or maintain auxiliary equipment, such as pumps, fans, compressors, condensers, feed water heaters, filters, or chlorinators, to supply water, fuel, lubricants, air, or auxiliary power.
- Clean, lubricate, or maintain equipment, such as generators, turbines, pumps, or compressors, to prevent failure or deterioration.
- Communicate with systems operators to regulate and coordinate line voltages and transmission loads and frequencies.
- Record and compile operational data by completing and maintaining forms, logs, or reports.
- Open and close valves and switches in sequence to start or shut down auxiliary units.
- Place standby emergency electrical generators on line in emergencies and monitor the temperature, output, and lubrication of the system.
- Receive outage calls and request necessary personnel during power outages or emergencies.
- Collect oil, water, or electrolyte samples for laboratory analysis.
- Examine and test electrical power distribution machinery and equipment, using testing devices.
- Make adjustments or minor repairs, such as tightening leaking gland and pipe joints.
- Replenish electrolytes in batteries and oil in voltage transformers, and reset tripped electric relays.
- Inspect thermal barrier coatings on integrated gasification combined cycle (IGCC) equipment for sintering, phase destabilization, or temperature variances to ensure compliance with standards and insulation efficiency.
- Operate or maintain distributed power generation equipment, including fuel cells or micro turbines, to produce energy on-site for manufacturing or other commercial purposes.
- Operate, control, or monitor equipment, such as acid or gas carbon

dioxide removal units, carbon dioxide compressors, and pipelines, to capture, store, or transport carbon dioxide exhaust.

- Operate, control, or monitor gasifiers or related equipment, such as coolers, water quenches, water gas shifts reactors, or sulfur recovery units, to produce syngas or electricity from coal.
- Operate, control, or monitor integrated gasification combined cycle (IGCC) or related equipment, such as air separation units, to generate electricity from coal.
- Identifying Objects, Actions, and Events – Identifying information by categorizing, estimating, recognizing differences or similarities, and detecting changes in circumstances or events.
- Understand technical operating, service or repair manuals.
- Communicating with Supervisors, Peers, or Subordinates – Providing information to supervisors, co-workers, and subordinates by telephone, in written form, e-mail, or in person.
- Monitor Processes, Materials, or Surroundings – Monitoring and reviewing information from materials, events, or the environment, to detect or assess problems.
- Monitor production machinery/equipment operation to detect problems.
- Controlling Machines and Processes – using either control mechanisms or direct physical activity to operate machines or processes (not including computers or vehicles).
- Control operation of compressors.
- Operate power driven pumps.
- Use precision measuring tools or equipment.
- Use electrical or electronic test devices or equipment.
- Use hand or power tools.
- Use pneumatic tools.
- Use pressure gauges.
- Use high voltage apparatus.
- Operate power generation equipment.
- Operate auxiliary power plant equipment.
- Inspecting Equipment, Structures, or Material – Inspecting equipment, structures, or materials to identify the cause of errors or other problems or defects.
- Maintain consistent production quality.
- Perform safety inspections in manufacturing or industrial setting.
- Getting Information – Observing, receiving, and otherwise obtaining information from all relevant sources.
- Read technical drawing.
- Evaluating Information to Determine Compliance with Standards – Using relevant information and individual judgment to determine whether events or processes comply with laws, regulations, or standards.
- Making Decisions and Solving Problems – analyzing information and evaluating results to choose the best solution and solve problems.
- Documenting/Recording Information – entering, transcribing, recording, storing, or maintaining information in written or electronic/magnetic form.
- Maintain equipment service records.
- Maintain production or work records.
- Establishing and Maintaining Interpersonal Relationships – developing constructive and cooperative working relationships with others, and maintaining them over time.

- Performing General Physical Activities – performing physical activities that require considerable use of your arms and legs and moving your whole body, such as climbing, lifting, balancing, walking, stooping, and handling of materials.
- Updating and Using Relevant Knowledge – Keeping up-to-date technically and applying new knowledge to your job.
- Operating Vehicles, Mechanized Devices, or Equipment – Running, maneuvering, navigating, or driving vehicles or mechanized equipment, such as forklifts, passenger vehicles, aircraft, or water craft.
- Training and Teaching Others – Identifying the educational needs of others, developing formal educational or training programs or classes, and teaching or instructing others.
- Analyzing Data or Information – Identifying the underlying principles, reasons, or facts of information by breaking down information or data into separate parts.
- Interpreting the Meaning of Information for Others – Translating or explaining what information means and how it can be used.
- Processing Information – Compiling, coding, categorizing, calculating, tabulating, auditing, or verifying information or data.
- Compile equipment operational data.
- Repairing and Maintaining Mechanical Equipment – Servicing, repairing, adjusting, and testing machines, devices, moving parts, and equipment that operate primarily on the basis of mechanical (not electronic) principles.
- Adjust production equipment/machinery setup.
- Maintain or repair industrial or related equipment/machinery.
- Clean equipment or machinery.
- Coordinating the Work and Activities of Others – Getting members of a group to work together to accomplish tasks.
- Interacting with Computers – Using computers and computer systems (including hardware and software) to program, write software, set up functions, enter data, or process information.
- Handling and Moving Objects – Using hands and arms in handling, installing, positioning, and moving materials, and manipulating things.
- Collect samples for testing.
- Developing and Building Teams – Encouraging and building mutual trust, respect, and cooperation among team members.
- Judging the Qualities of Things, Services, or People – Assessing the value, importance, or quality of things or people.
- Estimating the Quantifiable Characteristics of Products, Events, or Information – Estimating sizes, distances, and quantities; or determining time, costs, resources, or materials needed to perform a work activity.
- Thinking Creatively – Developing, designing, or creating new applications, ideas, relationships, systems, or products, including artistic contributions.
- Repairing and Maintaining Electronic Equipment – Servicing, repairing, calibrating, regulating, fine-tuning, or testing machines, devices, and equipment that operate primarily on the basis of electrical or electronic (not mechanical) principles.
- Install/connect electrical equipment to power circuit.
- Organizing, Planning, and Prioritizing Work – Developing specific goals and plans to prioritize, organize, and accomplish your work.

- Scheduling Work and Activities – Scheduling events, programs, and activities, as well as the work of others.
- Communicating with Persons outside Organization – Communicating with people outside the organization, representing the organization to customers, the public, government, and other external sources. This information can be exchanged in person, in writing, or by telephone or e-mail.
- Assisting and Caring for Others – Providing personal assistance, medical attention, emotional support, or other personal care to others such as coworkers, customers, or patients.
- Provide Consultation and Advice to others – Providing guidance and expert advice to management or other groups on technical, systems-, or process-related topics.
- Resolving Conflicts and Negotiating with others – Handling complaints, settling disputes, and resolving grievances and conflicts, or otherwise negotiating with others.
- Developing Objectives and Strategies – Establishing long-range objectives and specifying the strategies and actions to achieve them.
- Coaching and Developing Others – Identifying the developmental needs of others and coaching, mentoring, or otherwise helping others to improve their knowledge or skills.