

Holds a B. Sc. in Mechanical Power Engineering and has about 10 years hands-on experience in operation of Power Plants.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 19/05/1974

EDUCATION

: B. Sc. in Mechanical Power Engineering, Suez Canal University, 2000

LANGUAGES

Arabic : Native Language
English : Fluent

COMPUTER SKILLS

: Windows, MS Office, Internet

TRAINING COURSES AND CERTIFICATIONS

- : I had been attended all GE training courses in Qurayyah CCPP site (from Nov. 2008 till Jan. 2009) as the following:
 - GE Gas turbine frame 7FA familiarization course (two weeks).
 - GE Gas turbine frame 7FA operation course (two weeks).
 - EX2100 training course (one week).
 - Mark VI training course (one week), Mark VI simulation course (two weeks).
 - Bentley Nevada 3500 vibration course (2 days).
- : I had been attended the following course's in Egyptian Electricity Co. - East Delta Electricity Production Co. (EDEPC) at Damietta Power Plant:
 - SIEMENS - SGT5-2000E (V94.2) - unit gas turbine. 135MW base load operation (certified from EDEPC).
 - Alstom HRSG/STEAM turbine units operation (certified from EDEPC).
 - Gas turbines and boilers controlling systems (certified from EDEPC).
 - 2 courses in electrical equipment's maintenance (certified from EDEPC).

CHRONOLOGICAL EXPERIENCE RECORD

Dates : From May 2008 till now
Employer : Saudi Electricity Company (SEC)

- Project** : Qurayyah Combined Cycle Power Plant (4500MW) – KSA
- 6 Power Block's GE, each contains 3 gas turbines + 1 steam turbine D11
 - 3 Gas Turbines GE frame 7FA DLN 2.6 control system Mark VI
 - Generator output power 198 MVA, H2 cooled gas pressure 34 psi, 60Hz, 2 pole, 3600 Rpm
 - 3 Main Transformers (GE PROLOC) 400/18KV - 130/180 MVA
 - 2 Unit Auxiliary Transformers 18/4.16KV - 18.75/25 MVA
 - 2 LCI Load Commutative Inverter, using for unit start-up, cranking for forced cooling, off line compressor water wash
 - 3 Gas Performance Heater, using to increase the gas temperature to meet the wobbe index configuration
 - 3 HRSG Dossan under construction, Steam turbine GE under construction output power 250MW
 - Plant Auxiliaries:
 - 10 Water Bath Heaters for increase the gas temperature from ambient temperature to about 80°C
 - 6 Gas Compressors Cameron, pressure ratio 1.65, compressor motor 5MW rated power
 - H2 Plant have 10 Hydrogen Generators and 4 Hydrogen Compressors GE Teledyne
 - 4 Emergency black start diesel generators Caterpillar 5MW rated power
 - DCS Distribution Control System is Mark VIe GE
 - 6 switchgears, one for each block feed from two UAT 18/4.16KV also have two BAT transformers 4.16/0.480KV
 - 6 instrument and service air compressor buildings, atlas copco type, fire fighting system (water – foam - co2 - Fm200)
- Job Description** :
- Assist Operation Manager (from Jan. 2012 till now):
 - Prepare the monthly generation report, prepare the monthly invoice menu.
 - Coordinate with power dispatcher centre (start-up, shut down and T&I outage).
 - Coordinate with planning unit for maintenance daily activity, follow up with shift engineer's.
 - Troubleshooting Analyses, review all plant equipment's reading data.
 - Routine daily check for plant equipment's, evaluate and submit all operation performance.
 - Operation Shift Charge Engineer (from May 2009 till Jan. 2012):
 - Operation Shift Engineer for 18 x 198000 KVA (GE FRAME 7FA DLN2.6) Gas Turbine power plant and their auxiliaries Speed Tronic Mark VI control system.
 - 6 x 335000 KVA GE Steam Turbine D11 and 18 HRSG DOSSAN under commissioning.
 - Operating and maintaining the power plant with the maximum availability. Observing job progresses, hence reporting to concerned regarding conditions noted and actions taken implementing preventative and corrective maintenance procedures, troubleshooting actual and potential problems areas and implementing viable solutions. Raising defects for equipment, doing isolation according to the work order permit, make all

arrangement with power dispatcher for high voltage substation 380KV isolation and restoration.

- Commissioning & Start-up Engineer (from Jan. 2009 till May 2009):
 - I attend all construction and commissioning works such as:
 - Lube oil, Liquid fuel, Gas Fuel, CO2 fire system commissioning.
 - Electrical commissioning like Stability & Sensitivity test.
 - Gas turbine commissioning and start-up procedure, generator air leak test, generator co2 purge system, First fire stability test, gas turbine dummy sync. and first actual synchronizing and tuning test.
- Training Instructor (from May 2008 till Dec. 2008):
 - My company choosed me to work as Instructor to learn about 70 Operators for about 6 months for all GE course`s and operation items to prepare them as Operator`s for Qurayyah Operation Division.

- Dates** : From Dec. 2002 till May 2008
- Employer** : Egyptian Electricity Co. - East Delta Electricity Production Co. (EDEPC)
- Project** : Damietta Power Plant (1230MW)
- Job Description** :
- Operation Shift Charge Engineer (from Jan. 2007 till May 2008):
 - Shift Charge Engineer in SIEMENS-SGT5-2000E (V94.2) – unit gas turbine.
 - Operating HRSG / steam turbine associated plant equipment.
 - Operating 250 ton/hr steam H.R.S.G of Borssig Company HRSG / steam turbine units.
 - Operating HRSG / steam turbine Alstom units and associated plant equipment (from Mar. 2005 till Jan. 2007):
 - 3 MVA emergency diesel generator caterpillar.
 - Compressors for service and instrument Air supply, fuel oil separating station.
 - Closed cooling system.
 - Service water system.
 - Traveling screen system, fire fighting system (water – foam - co2).
 - Central air conditioning.
 - Operating 250 ton/hr steam boiler (H.R.S.G. of Borssig Company), from Jan. 2004 till Mar. 2005:
 - Operating, controlling and monitoring heat recovery boiler high press & low press boilers.
 - Able to use own initiative and willing to operate large manual valves, filters and band screens. Knowledge of DCS control systems.
 - Gas Turbine Operation Engineer (from Dec. 2002 till Jan. 2004):
 - Two gas turbine units SIEMENS – SGT5-2000E (V94.2) – Single shaft single casing – two combustion chambers - 135MW base load.
 - Troubleshooting analysis, system starting and shutdown, operating and monitoring auxiliaries.
 - Two power transformers 10.5/220KV, 152MVA (trafo-union).
 - Two power transformers 10.5/6.3KV, 8.7MVA (trafo-union).
 - Fire fighting systems (co2 & deluge).
 - Static frequency converter, brush`s excitation system.

- Further experiences :**
- Participating Major Overhaul inspections for unit gas turbine 3, 1 and 4 of Damietta Power Plant.
 - Participating Periodic Check inspection for unit gas turbine 1, 2, 3, 4, 5 and 6 of Damietta Power Plant.
 - Preparing, collecting data and drawing of completely chart with full details of control oil, trip oil, fuel gas, fuel oil, lubrication oil, lifting oil and ignition gas cycles for SIEMENS - SGT5-2000E (V94.2) - unit gas turbine.