100983-MEC-1MOS-E-2004
Mechanical Engineer

Holds a B. Sc. and a M. Sc. in Mechanical Power Engineering. Has over 11 years hands-on experience working in operation, commissioning, start-up and maintenance of Power Plants.

PERSONAL DATA

Nationality	:	Egyptian
Birth Date	:	01/01/1983
Gender	:	Male
Marital Status	:	Married
Residence	:	Damanhour

EDUCATION

: B. Sc. in Mechanical Power Engineering, Alexandria University, 2004
: M. Sc. in Mechanical Power Engineering, Alexandria University, 2011

LANGUAGES

Arabic	:	Native Language
English	:	Very Good

COMPUTER SKILLS

: Windows, MS Office (Word, Excel, Access, Power Point), Internet
: AutoCAD 14 & AutoCAD 2000

TRAINING COURSES AND CERTIFICATIONS

: Training at Damanhour Power Station (65MW x 3 units).
: Training at Damanhour Power Station (325MW).
: Training course in operating of power station at Abu Qir Training Center.
: Training course in power generation portal (PGP) base and configuration & advanced configuration of ABB Co.
: Training course in MICROSOFT ACCESS at Abu Qir Training Center.
: Training course in VISUAL BASIC 6 at Abu Qir Training Center.

CHRONOLOGICAL EXPERIENCE RECORD

Dates	:	From Sep. 2014 till now
Employer	:	West Delta Company for Electric Generation
Job title	:	Mechanical Maintenance Engineer

Dates : From Jan. 2014 till Sep. 2014

Employer : EGYPTROL, SAMSUNG C&T Subcontractor

Project : Qurayyah Independent Power Project (6x750MW) – Combined Cycle

Job title : Commissioning & Operation Engineer

Job Description :

- The Qurayyah IPP Project is approximately 100 km south of the port of Dammam on the coast in the Eastern province of the kingdom of Saudi Arabia. The facility is a 2 on 1 combined cycle configuration consisting of twelve (12) Siemens SGT6-PAC 5000F gas turbine generating units (GTGS), twelve (12) heat recovery steam generators (HRSGs), six (6) Siemens SST6-4000 steam turbine generators (STGs), and six (6) sea water condensers.
- The Siemens Energy, Inc. SGT6-5000F (5) Gas Turbine includes a 13-stage high efficiency axial flow compressor with variable inlet guide vanes (IGVs) and three rows of variable guide vanes (VGVs). It also includes a combustion system featuring advanced cooling and multi-fuel capability. Within this system is an installed combustion chamber, which houses 16 individual combustors. These combustors are arranged in a circular pattern around the circumference of the turbine assembly. The four-stage reaction-type turbine incorporates an advanced cooling design. Corrosion resistant coatings and thermal barrier coatings are also integrated into the SGT6-5000F (5) turbine design in order to improve part longevity.
- Carry out all commissioning activities of gas turbine (SIEMENS SGT6-PAC 5000F) for:
  - Fuel gas system air blowing and leak test.
  - Fuel oil system. Flushing, nozzle test, bucket test, flow test, leak test and flow divider skid Test.
  - Water Injection System (Dry Low NOX– Dual Fuel), Flushing and tests.
  - Lube oil system. Flushing and test and pressure Adjustment.
  - Control oil system. Flushing, pressure Adjustment for control oil and accumulator N2 pressure.
  - Instrument air system. Compressor heat run test, instrumentation air blowing.
  - Inlet guide vane IGV and variable guide vanes VGVs adjustment.
  - Gas turbine Fire Protection System.
  - Turning gear system. Low speed, high speed turning gear motor solo test and heat run test.
  - Air intake system. Pulse air filter self-cleaning system commissioning and puff test.
  - Generator and collector blower commissioning.
  - PCC package and SFC package HVAC commissioning and start-up.
  - Kettle Boiler and Rotor Cooling System. Air blowing by start-up frequency convertor (SFC) at speed 850 RPM.
  - Cooling Air /Compressor Bleed System and Disc Cavity Cooling System. Air blowing by start-up Frequency convertor (SFC) at speed 850 RPM.
  - Compressor Water Wash System. Flushing and tests.
  - High load Purge Air System. Air blowing and tests.
  - Pre-start Simulations (SFC/Gas).
  - Start-up Tasks: Initial Roll test, Over speed Trip Test, Start-up

Sequence: Pre- synchronous Turbine Check at 3600 rpm, Start-up tasks Full Speed No Load, Start-up Tasks Initial Synchronization (Base Load), Start-up Tasks – Performance Test.

- Operate the gas turbine SiemensSGT6-5000F (5) from DCS using SPPA T3000 Control System.

Dates : From May 2013 till Dec. 2013
Employer : Toshiba Company
Project : Sidi Krir Combined Cycle Power Station (750MW)
Job title : CP-118 Mechanical Warranty Engineer

Dates : From Jul. 2012 till Apr. 2013
Employer : West Delta Company for Electric Generation
Job title : Mechanical Maintenance Engineer

Dates : From Jan. 2012 till Jun. 2012
Employer : Ansaldo Company
Project : 6th October Power Plant 600MW Simple Gas Turbine (4x150MW)
Job title : Shift Engineer
Job Description :

- Full commissioning procedures and start-up for AE94.2 Siemens gas turbines 150MW:
  - Air blow for air lines.
  - Air blow for gas fuel lines.
  - Flushing for oil fuel lines.
  - Dummy test.
  - First fire.
- Commissioning and start-up for (Closed Cooling Water, Hydraulic, Lubrication, Instrument air, service air, Gas fuel & Fire fighting systems).

Dates : From Sep. 2010 till Dec. 2011
Employer : West Delta Company for Electric Generation
Job title : Mechanical Maintenance Engineer

Dates : From Sep. 2009 till Sep. 2010
Employer : Toshiba Co.
Project : Sidi Krir Power Station 750MW Combined Cycle:

- 2x250MW Mitsubishi Heavy Industries (MHI) Gas Turbine
- 1x250MW Steam Turbine (ANSALDO)
- Heat Recovery Steam Generators &DCS (NEM)
- METITO Water Treatment Plant

Job title : Mechanical Commissioning & Start-up Engineer
Job Description :

- Following and supervising installation, pre-commissioning and commissioning tests of 3 Atlas Copco Gas Compressors including: trial tests and runs, Surge Region Setups for each compressor and Compatibility with Gas turbine demands and abnormalities.
- Following and supervising installation, pre-commissioning and commissioning tests of 2 Mitsubishi's 701F Gas turbines, Power

Generators and it's auxiliaries including: trial tests, simulation and interlock tests, trial run ups, load rejection tests, load runback tests, trip tests and house load test and that's for Gas and Oil Firing.

- Following and supervising installation, pre-commissioning and commissioning tests of 2 Nem's Heat Recovery Steam Generators including doing steam blowing of main steam lines.
- Following and supervising installation, pre-commissioning and commissioning tests of Ansaldo Energia's Steam Turbine, Power Generator, Steam Condenser and Steam Bypasses and it's auxiliaries including: trial run up, online and offline tests, simulation tests, load rejection tests, load runback tests and trip tests.
- Following and supervising installation, flushing, pre-commissioning and commissioning tests of main plant auxiliaries systems: Service water system, Circulating water system, Vacuum System, Condensate System, Closed Cooling System, Compressed Air System, Service Gas System, Fuel Oil System and filling System.
- Worked as a Process Engineer in reviewing and modification of plant logic with instrumentation and control department to achieve maximum compatibility of plant logic.
- Reporting any new activities on site, following commissioning tests, coordinating with several contractors to achieve minimum time with maximum progress step by step with project consultant (PGESCo.).

Dates : From Oct. 2004 till Aug. 2009

Employer : West Delta Company for Electric Generation

Job title : Shift Engineer

Job Description : Safe operation of 1 Module of combined cycle power plant, the module consists of:

- 4 Hitachi Gas Turbine Units.
- 4 NEM Heat Recovery Steam Generators.
- 1 General Electric Steam Turbine & its Auxiliaries.
- DCS Control System.
- Mark II Control System.
- Mark V Control System.