

102818-MEC-1MOS-E-2007
Lead Commissioning & Start-up Engineer

Holds a B. Sc. in Mechanical Power Engineering and a Diploma in Power Plants (Gas Turbine Engine Maintenance). Has over 11 years hands-on experience working in operation, commissioning and start-up.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 07/06/1984
Gender : Male
Marital Status : Married
Residence : Damietta

EDUCATION

- : B. Sc. in Mechanical Power Engineering, Mansoura University, 2007
- : Diploma in Power Plants (Gas Turbine Engine Maintenance), Mansoura University, 2012

LANGUAGES

Arabic : Native Language
English : Excellent

COMPUTER SKILLS

- : Windows, MS Office (Word, Excel, Power Point), Internet
- : MAXIMO & EMC Maint

TRAINING COURSES AND CERTIFICATIONS

- : Advanced Maintenance Planning & Scheduling, RES, Alex (Jan. 2017):
 - MAINTENANCE DESIGN.
 - MAINTENANCE POLICIES.
 - MAINTENANCE PLANNING.
 - MAINTENANCE BUDGET AND COST REPORTS.
 - WORK CONTROL.
 - MMS.
 - (KPI).
 - SPARES MANAGEMENT.
 - WORK PROGRAMME MANAGEMENT.
 - TIME MANAGEMENT.
 - AUDIT PROCEDURE PHILOSOPHY.
- : Project Management Process Groups, Skillsoft (online) (Oct. 2016).

- : IOSH Managing safely awareness, GE Office in Egypt (Jul. 2016).
- : SPPA-T3000 Simulator, SIEMENS Quad3 – University Street – Orlando, Florida, USA (Sep. 2013).
- : Gas Turbine operation Siemens SGT6-5000F (5), Qurayyah IPP – Saudi Arabia.
- : Steam Turbine Familiarization Siemens SST 6-4000 (DN), Qurayyah IPP – Saudi Arabia.
- : Atlas Copco Gas compressor training, Qurayyah IPP – Saudi Arabia.
- : GCB (Generator circuit breaker), Qurayyah IPP – Saudi Arabia.
- : HRSG system, Qurayyah IPP – Saudi Arabia.
- : Vibration Monitoring system, Qurayyah IPP – Saudi Arabia.

CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Jun. 2018 till now
- Employer** : [EGYPTROL](#), GE Energy Subcontractor
- Projects** : West Assiut CCPP (from May 2019 till now)
West Damietta CCPP (from Jun. 2018 till May 2019)
- STG F-D202 250MW (GE).
 - Four DOOSAN horizontal type HRSGs (DOOSAN).
 - ACC (Air Cold Condenser).
- Job title** : Lead Commissioning & Start-up Engineer
- Job Description** :
- Review System Binders.
 - Make System Walk Down with commissioning team.
 - Record Punch items.
 - Release NOCC after Punch items have category (A & B) was clear.
 - Prepare the vendor Documents.
 - Clear all Punch items before handed over to the end user.
 - Coordinate and facilitate all commissioning activities during my shift such as:
 - All Mechanical commissioning activities:
 - ❖ ST Lube Oil System incl. Lift Oil.
 - ❖ Lube Oil Enclosure.
 - ❖ ST Control Oil System.
 - ❖ ST Gland & Seal Steam System.
 - ❖ ST Spindle Steam System .
 - ❖ ST Drain System.
 - First sync (synchronizing with GCB, see switching procedure 1st sync).
 - 1st turning gear operation.
 - STG cold, Warm and hot start load ramps, peak load adjustment.
 - Full support for MARK6 operation system.
 - Load rejection tests FSNL & Load ramps.
- Dates** : From Dec. 2017 till May 2018
- Employer** : [EGYPTROL](#), SIEMENS AG Subcontractor
- Project** : Azura - Edo IPPT - Nigeria
- Job title** : Commissioning & Start-up Engineer (SIEMENS) (3 x SGT94.2)

- Job Description** : • Coordinate and facilitate all commissioning activities during my shift such as:
- All Mechanical commissioning activities:
 - ❖ GT Control-Hydraulic Oil Skid and Piping.
 - ❖ GT Instrument Air.
 - ❖ GT Turning Gear (2 speed).
 - ❖ GT Lube Oil System (including Lift Oil).
 - ❖ GT Lube Oil Package.
 - ❖ GT Erection (including exhaust Manifold, Diffuser and Combustion system).
 - ❖ GT Inlet Filter House-Evap Cooler-Pulse Comp.
 - ❖ GT Drains System (Inlet, Exhaust, Engine).
 - 1st turning gear operation.
 - GT First fire.
 - First sync (synchronizing with GCB, see switching procedure 1st sync).
 - GT cold start, load ramps, peak load adjustment, verifying combustion parameters, IGV & OTC.
 - Load rejection tests FSNL & house load (part-load & full load).
 - Load ramps/combustion optimization.

Dates : From Oct. 2015 till Dec. 2017

Employer : GRANITE

Project : West Assiut Combined Cycle Power Station (8x125MW) GTs GE 9E

Job title : Senior O&M Advisory Services (MTFA) (9E & 9FA)

- Job Description** : • Advise and make recommendations to Owner Representative concerning the requirements for operations and maintenance of the Facility.
- Advise and make recommendations to the Owner Representative on the performance and recording of periodic operational checks and tests of Facility equipment in accordance with Owner's requirements.
 - Advise and make recommendations to Owner Representative regarding requirements for environmental, health and safety compliance management.
 - Recommend a maintenance strategy based on a Reliability Based Maintenance program and monitor effectiveness of the preventative maintenance program.
 - Coordinate and facilitate the preventive maintenance program for the Facility including assist in outage planning.
 - Make recommendations to Owner for any identified areas of improvement that will result in lower cost operation or increased efficiency and output.
 - Summary of progress against targets.
 - Information related to the Work scope reasonably required by Owner.
 - Report immediately to Owner verbally, (written report within 24 hours) of any incident, as they become aware of it, occurring at the plant and relating to health & safety that in their opinion requires immediate response.

Dates : From Jan. 2017 till Mar. 2017
Employer : GE
Project : Cairo North PP
Job title : MTA (OJT) GE 9FA GT
Job Description : Maintenance Activities in GE:

- OJT and support site team in two outages:
 - DLN 2.6+ (Dual Fuel) - GE MS9001FA+e – Generator Drive (250MW).
 - DLN 2+ conversion to DLN2.6 (Dual Fuel).
- Assiut:
 - Onsite repair for 3 units TG ratchet oil leakage.
 - Onsite repair for lift oil pumps failure, Gas vent, APU Compressor failure...etc.
 - Rotary Machines Maintenance (Pumps, Fans...etc.).
 - Static Equipment Maintenance (Valves, Flanges...etc.).
 - Responsible for all mechanical issues for 8 units.
 - Perform Borescope inspection 3 times for 8 gas turbines.
 - Perform 4 CI (Combustion Inspection).
 - Setup the full Mechanical Preventive Maintenance Plan for the power plant.
 - Fin fan cooler system maintenance (Vibration Issues, Fans Pitch Angles Adjustment, etc.).

Dates : From Jan. 2014 till Oct. 2015
Employer : First National Operation and Maintenance Co. Ltd (NOMAC)
Project : Qurayyah IPP Combined Cycle (6x700MW) Power Station – Saudi Arabia
Job title : Shift Charge Engineer
Job Description : Six modules, each module consists of:

- Two Siemens combustion Gas Turbine produce 231MW type SGT 5000F (5).
- Two BHE horizontal type heat recovery steam (HRSG).
- One Siemens steam turbine 231MW type SST 6-4000 (DN) HP AND LP steam lines.
- Chiller system which contain two phase, each phase contain:
 - One Thermal Energy Storage tank.
 - Ten working Secondary Chilled Water Pumps.
 - Eight chiller module.
- Gas Station which contains:
 - Two Emergency shut-down (ESD) valves.
 - Dry scrubber.
 - Two Filter separators.
 - Gas metering station.
 - Thirteen gas compressor type Atlas-Copco.
 - Seven Dew Point heater type.
 - PRV area contains seven lines.

Dates : From May 2013 till Dec. 2013
Employer : [EGYPTROL](http://www.egyptrol.com), SAMSUNG C&T Subcontractor

Job title : Commissioning & Start-up Engineer
Job Description : Attend all construction and commissioning works such as:

- Lube oil, Liquid fuel, Gas Fuel, CO2 fire system commissioning.
- Heat run test and solo run test for pumps.
- Gas and steam turbine commissioning and startup procedure and all there tests.
- 12 HRSGs steam blowing.
- All BOP commissioning and start-up procedure.
- All groups tests such as performance test, RTR test and NDC test, etc.

Dates : From Oct. 2012 till Feb. 2013
Employer : Egyptian Maintenance Company (EMC)
Job title : Senior Mechanical Section Head
Job Description :

- Daily checkup for all rotating equipment.
- Corrective maintenance for centrifugal pumps – centrifugal compressors – screw compressors – liquid ring compressors – centrifuges – high speed – vertical submersible pumps – gear pumps.
- Preventive maintenance (weekly – monthly – 3 monthly – 6 monthly – yearly) for centrifugal pumps – centrifugal compressors – screw compressors – liquid ring compressors – centrifuges – high speed (sundyne) pumps – vertical submersible pumps – multistage pumps – gear pumps.
- All troubleshooting for pumps.
- All troubleshooting for compressors.
- All troubleshooting for centrifuges.
- Managing all plant technicians' time sheets, attendance, overtime and shift schedules.
- Carrying out all jobs risk assessment.
- Following the condition monitoring and vibration analyses reports & predictive maintenance for all rotary equipment.

Dates : From May 2012 till Sep. 2012
Employer : East Delta Electricity Production Co. (EDEPC)
Project : Damietta Combined Cycle Power Station
Job title : Senior Shift Charge Engineer
Job Description :

- Three modules, each module consists of:
 - 145MW GEC ALSTHOM Steam Turbine.
 - 500 ton / hr BORSIG HRSG.
- Gas Turbine 135MW Operation Engineer (SIEMENS SGT5-2000E (V94.2)).
- Operating & controlling equipment through D.C.S (Westinghouse).
- Ensure plant is running at optimal level, by reading trends and paying attention to detail to notice possible problems before they happen.
- Report all plant upset conditions during Shift Engineers.

Dates : From Apr. 2008 till Apr. 2012
Employer : East Delta Electricity Production Co. (EDEPC)
Project : Damietta Combined Cycle Power Station
Job title : Operation Engineer for Siemens Gas Turbine

- Job Description** :
- Operating & monitoring 135MW gas turbine units SIEMENS SGT5-2000E (V94.2).
 - Operation and monitoring performance of SIEMENS SGT5-2000E (V94.2) single shaft single casing – twin vertical combustion chambers – 135MW base load unit gas turbine.
 - Carry out starting, normal operation, shut-down and stand still.
 - Troubleshooting analysis.
 - Analyze gas turbine faults and upsets, investigate and recommend solutions.
 - Monitoring all readings of pressure, temperature, flow rate, vibration, valve position, liquid levels and power generated.

- Field of experience** :
- Over 11 years solid experience in different facets of combined cycle Power Plants industry.
 - Strong understanding with different philosophies in combined cycle power generations.
 - Well-exposed and experienced in the commissioning, start-up and operation of the following:
 - Heat Recovery Steam Generators (HRSGs) (Alstom, Borsig, DOOSAN...etc.).
 - Rotating Equipment's:
 - ❖ Siemens Gas Turbine (V94.3A 250MW), (SGT 5000F (5) 231MW).
 - ❖ GE gas turbine (250 & 125MW frame 9F and 9E).
 - ❖ ALSTOM steam turbine (230MW) Siemens steam turbine 231MW type SST6-4000 (DN).
 - ❖ Pumps (HP/LP feed water, CW, Condensate, closed cooling...).
 - Control work permits (PTW) on plant and equipment.
 - Carry out the Load Rejection, Reliability and Performance tests within all applicable guidelines.
 - Review maintenance procedures, job plans, standing instruction, operating manuals, and to update COMPANY manuals for safe maintenance and operation.
 - Troubleshoot all plant systems and submit work requests.