

100046-MEC-MOS-E-1999
Lead Field Commissioning Engineer

Holds a B. Sc. in Mechanical Engineering and has about 17 years hands-on experience in power plants operation, maintenance and commissioning of mechanical equipments.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 27/06/1977
Gender : Male
Marital Status : Married
Residence : Currently KSA

EDUCATION

: B. Sc. in Mechanical Power Engineering, El-Minia University, 1999

LANGUAGES

Arabic : Native Language
English : Fluent
French : Good

COMPUTER SKILLS

: Windows, MS Office (Word, Excel, Power Point), Internet
: MS Project

TRAINING COURSES AND CERTIFICATIONS

: El-Kureimat Thermal Power Plant Operations Course by IIE (International Institute of Education), FCS (Fossil Consulting Engineering) and Egypt Electrical Authority (Oct. 2000).
: "Introduction to Steam Power Plants" Course by Shoubra El-Kheima Thermal Power Station Training Center in cooperation with BECHTEL Power (Aug. 1998).

CHRONOLOGICAL EXPERIENCE RECORD

Dates : From Mar. 2016 till Aug. 2016
Employer : SHANAHAN ENGINEERING
Project : PP12 CCPP 2000MW (2(4x4x1)) – KSA
Job title : Lead Field Commissioning Engineer

Job Description : Responsible for the safe and efficient commissioning tests for:

- Alstom HRSG Large capacity during first Fire and steam blow activities.
- Alstom Steam Turbine during first rolling and synchronize tests and load rejection tests.
- BOP (condensate, Feed water, cooling water systems).

Dates : From Apr. 2015 till Nov. 2015

Employer : GE Power & Water

Project : ASSIUT CC GT 1000MW (8 GT x 125MW)

Job title : Lead Mechanical Commissioning Engineer (Gas Turbine)

Job Description :

- Responsible for the safe and efficient tests commissioning of 8 Gas Turbine (GE) PG9171E and auxiliary system such as: Oil Systems with Lube Oil, Power Oil and Jacking Oil, Closed Cooling Water System for the Lube Oil and Generator Cooling, Cooling Air Systems on the Gas Turbine, Filters house and Air Intake, Exhaust System, Water and N2 Purge Systems, Sound Enclosure and Ventilation Systems, Fire Fighting Systems and Gas Detection, including also responsible for the Fuel Gas and Fuel Oil Systems such as: Gas Metering, Scrubber and Filters, treated Mazout Heater and Pressure Reducing Stations and Gas, Fuel Oil Metering and Forwarding Station, Loading/Unloading Storage Tank System.
- Responsible for the safe and efficient tests commissioning of Heavy Fuel Oil treatment plant (De-salters, corrugated plate interceptor, depurators, etc.).

Dates : From Nov. 2012 till Dec. 2014

Employer : Arabian Bin Laden Electrical and Mechanical Co.

Projects :

- Qurayyah CCPP 4500MW (6 power blocks (3x3x1)), KSA
- Riyadh PP10 CCPP 3600MW (10 power blocks (4x4x1)), KSA

Job title : Senior Mechanical Commissioning Engineer (BOP)

Job Description :

- Review construction completion and ensure readiness for pre-commissioning through review of piping and equipment test packs in addition to line walks and physical inspection.
- Develop flushing, blowing and leak test method statements.
- Ensure safe work practices and monitor commissioning task hazards communicating non conformances to the execution crew and management intervening where necessary to avert escalation.
- Review design deliverables and drawings to ensure completion compliance to project design and company standards.
- Manage and execute commissioning of On-Plot and Off-Plot Piping, Pumps, Vessels and Rotating Equipment.
- Monitor initial startup equipment performance and train client maintenance staff on the project.

Dates : From Oct. 2011 till Oct. 2012

Employer : [EGYPTROL](http://www.egyptrol.com) – Commissioning Subcontractor for ANSALDO CALDAIE S.P.A.

- Project** : Abu Qir Thermal Power Plant (2x650MW):
- ANSALDO 2067 T/Hr SH flow, 1729 T/Hr RH flow, front & rear burners low NO_x burner TEA-BA dual fired (N.G./HFO) drum type, natural water circulation, reheat boiler with 2 x 50% FD/GR fans, air heater, Soot blowers, CEMS, etc.
 - MITSUBISHI STG with HP, IP and LP cylinders, H2 cooled Generator and see water cooled Condenser with HP, LP Steam Bypass systems.
 - BOP including 8 Stage regenerator feed water heaters, Circulating water, 2x 50% TFWP and 1x 30% MFWP for start-up, Closed cooling water, Compressed air, EDG, Fuel handling, Ball cleaning and H2 production systems.
- Job title** : Senior Mechanical Commissioning Engineer (Boilers)
- Job Description** :
- Implement of boiler commissioning and operation activities for large utility steam generator which contain: Pipe lines (lubrication - fuel - atomizing steam - etc....) cleaning (blowout - flushing), Motors solo run test, Fans (FDF, GRF and Cooling Air Fans) heat run test, R.A.H heat run test, Boiler chemical cleaning, First fire tests, Boiler steam blow., Boiler initial, starts up and loading tests.
 - Very good knowledge with ABB DCS version 800XA.
- Dates** : From May 2011 till Sep. 2011
- Employer** : [EGYPTROL](http://www.egyptrol.com) – Seconded to TOSHIBA Plant Systems & Services Corporation
- Project** : Sidi Krir Combined Cycle Power Station 750MW (2x2x1)
- Job title** : Senior Operation Engineer (BOP)
- Job Description** :
- Operation, monitoring and conditions reporting for the BOP systems Condensate system & condensate pumps, Feed water system (LP, HP/IP) & FWP's, Circulating water system & CW pumps, closed cooling system, Compressed Air system, Dematerialized water pumps, Hydrogen supply plant, Potable water pumps.
- Dates** : From Mar. 2010 till Feb. 2011
- Employer** : [EGYPTROL](http://www.egyptrol.com) – Commissioning Subcontractor for HRSG Contractor NEM
- Project** : EI-Atf Combined Cycle Power Plant 750MW
- Job title** : Mechanical Commissioning & Start-up Engineer (HRSG)
- Job Description** :
- Review and update commissioning procedures and plans in-line with site conditions.
 - Provide regular reports of progress and issue with commissioning process to Commissioning Manager.
 - Identify operation problems and ensure solutions are implemented.
 - Verify the accuracy and completeness of the As Built drawings.
 - Execute the commissioning and testing for large capacity HRSG.
 - Operation of HRSG during steam blow activities, Operation large capacity HRSG during reliability and performance test.
 - Very good knowledge with Yokogawa DCS system version CENTUM CS3000.

Dates : From Aug. 2009 till Feb. 2010
Employer : [EGYPTROL](#) – Commissioning & Operation Subcontractor for BoP Electrical and Mechanical Contractors TOSHIBA/TOYOTA
Project : El-Atf Combined Cycle Power Plant 750MW
Job title : Mechanical Commissioning & Start-up Engineer (BOP)
Job Description :

- Commissioning and testing for the following systems:
 - Condensate system & condensate pumps.
 - Feed water system (LP, HP/IP) & FWP's.
 - Circulating water system & CW pumps.
 - Sump pumps.
- Perform the chemical cleaning according procedures for condensate system & feed water system pipelines.
- Perform the steam blow-out activities for HP steam, HRH & CRH steam and LP steam lines.
- Perform the sequence test for the following systems:
 - Condensate system & condensate pumps.
 - Feed water system (LP, HP/IP) & FWP's.
 - Circulating water system & CW pumps.
 - Service water system.
 - Closed cooling system.
 - Instrument and service air system.
- Record the commissioning data for all systems mentioned previously.
- Report and advise the daily activities for all systems mentioned previously.
- Very good knowledge with Yokogawa DCS system version CENTUM CS3000.
- Operation for the BOP systems: Condensate system & condensate pumps, Feed water system (LP, HP/IP) & FWP's, Circulating water system & CW pumps, closed cooling system, Compressed Air system, Demineralized water pumps, Hydrogen supply Plant and Potable water pumps.
- Record & report the operation data of BOP equipment's.

Dates : From Apr. 2009 till Jul. 2009
Employer : [EGYPTROL](#) – Seconded to Mitsubishi Electric, MELCO
Project : Sidi Krir Combined Cycle Power Plant 750MW
Job title : Turbo Generator Commissioning & Testing Engineer
Job Description :

- Conduct and advice commissioning procedure and methods at site based on Mitsubishi Electric Co. procedures.
- Record the commissioning data of generator and auxiliaries.
- Conduct and advice the corrective works against trouble of the generator and auxiliaries.
- Assist Mitsubishi Electric Co. commissioning engineer (make reports, cables check, instruments loop check).
- Report and advise the daily activities and any problems to Mitsubishi Electric Co. Commissioning Engineer.
- Summary of generator testing:
 - Test operation of AC, DC seal oil pumps, vacuum pump, vapor extractor, hydrogen gas dryer.
 - Characteristic Test of seal oil differential pressure regulator.

- Calibration of hydrogen gas pressure and purity meters.
- Seal oil control panel alarm checkout.
- Generator insulation and HV tests.
- Filling generator with hydrogen, measure leakage, H₂ gas purge.
- Vibration measurement.
- Shaft voltage measurement.
- Internal check (visual inspection in the generator, loop check for temperature detectors and others).
- Perform commissioning and start-up and monitor operation for MHI GT model M701F with DIASYS DCS Control system.

Dates : From Jul. 2007 till Mar. 2009
Employer : Upper Egypt Electricity Production Company
Project : Assiut Thermal Power Plant 2x300MW
Job title : Mechanical Maintenance Engineer (Steam Turbines / BOP)
Job Description :

- Plan and execute Maintenance and overhauling of boiler feed water pumps (turbine driven & motor driven) including of assembly, disassembly and inspection.
- Plan and execute Maintenance and overhauling of feed water heat exchanger large capacity (tube and shell type) including of assembly, disassembly and inspection, repair.
- Plan and execute Maintenance & overhauling different types of valves (globe, gate, butterfly, ball, etc.) used in steam power units.
- Plan and execute Maintenance and overhauling of large vertical pumps (circulating water pumps, condensate extraction pumps including of assembly, disassembly and inspection, repair).
- Maintenance and overhauling large surface condensers including pipe cleaning, re-tubing and tube plugging.
- Maintenance and overhauling of vacuum pumps related to condensers including of assembly, disassembly and inspection.

Dates : From Jul. 2004 till Jun. 2007
Employer : Integrated Services Co. (ISCO), Seconded to Electricity & Water Ministry
Project : Doha West Power Station 8x300MW, Kuwait
Job title : Mechanical Maintenance Engineer (Generators / BOP)
Job Description :

- Plan and execute Mechanical maintenance and overhauling of large turbo-generators 300MW (Mitsubishi Electric Co.) including of assembly and disassembly, rotor pull-out, mechanical inspection of (sleeve bearings, seal oil rings, cooling fan blades, oil deflectors, Wedge Tightness, Core Tightness, hydrogen coolers).
- Hydrogen Seal rings preparation for first time installation.
- Plan and execute Mechanical maintenances overhauling of seal oil system including gear pumps, regulating valves, seal oil coolers.
- Mechanical maintenance & inspection of electrical actuator LIMITORQUE, AWMA, SIEMENS, etc.
- Mechanical maintenance and inspection for medium voltage motors (11KV) like boiler feed water pump motor, FDF motors, CWP motors, main cooling pump motors, sleeve bearing repairing.

Dates : From Jan. 2000 till Jun. 2004
Employer : Upper Egypt Electricity Production Company
Project :

- Assiut Thermal Power Plant 2x300MW
- El-Kureimat Thermal Power Plant 2x600MW

Job title : Operation Engineer (Boilers / Steam Turbines / BOP)
Job Description :

- Prepare and operate steam unit 300MW (boiler & turbine and their auxiliaries) in all operation modes (cold, warm and hot) start up and safe shutdown, change over the equipment from local and control room, connect and disconnect electrical circuits (220KV, 6.3KV).
- Prepare and operate all local equipment for steam unit 600MW including feed water heaters, pumps, boiler forced draft fans, gas recirculation fan, burners, seal oil system, stator cooling system, etc.
- Reporting the equipment condition during shift.
- Good knowledge of Steam unit troubleshooting.
- Good knowledge of P&I diagrams and process drawing.

Dates : From Aug. 1999 till Dec. 1999
Employer : Sugar Industries & Integrated Company, Abu Korkas, El-Minya
Job title : Mechanical Maintenance Engineer
Job Description :

- Maintenance and overhauling of feed water heat exchanger large capacity (tube and shell type) including of assembly, disassembly and inspection, repair.
- Maintenance & overhauling different types of valves (globe, gate, butterfly, ball, etc.) used in steam power units.
- Maintenance and overhauling of large vertical pumps (circulating water pumps, condensate extraction pumps including of assembly, disassembly and inspection, repair.

Field of experience :

- Summary:
 - I am in a depth expertise in facilities mechanical commissioning, operations and maintenance is accumulated from 17 years of experience in Power Generation projects.
 - I spent over 8 years on commissioning of CCGT and thermal PP Equipment's (Steam Turbines, HRSG, Gas Turbines, Steam generators, BOP) and pipelines in addition to 9 years in operations & maintenance of large thermal power plants.
 - As Senior Mechanical Engineer I have managed mechanical construction completion, commissioning activities and developed a package of commissioning completion certificates in-line with the client's standards.
 - I started my career as an Operations & Maintenance Engineer, and worked as an Operations Engineer which led me to take a position of Commissioning Engineer advanced progressively in commissioning until seniority position.
- Main Achievements:
 - Ensured HSE awareness on the job to ensure full buy-in of the HSE policies by all staff which helped achieving the set HSE targets.
 - Manage pre-commissioning and commissioning activities for large size projects with Thermal PP, CCPP, SCPP, pipe lines, etc.... Ensured through pre-commissioning and commissioning tests

were conducted and witnessed against the design which resulted in a 1st time right results without delays to project.

- Monitor commissioning performance, train client staff as required and ensure safe work practices at site.
 - Developed systemization and package completions according to client standard procedures and completion system.
 - Manage system cleaning packs such as chemical cleaning, flushing and Steam blowing for Pipelines.
 - Managing construction Completion and commissioning activities for static equipment (Tanks, Vessels, Pipelines, etc...) as well as large size Rotating equipment such as Steam turbines, Gas turbines, Pumps and Compressors.
 - Manage vendor representative pre-commissioning/commissioning activities.
 - Ensure all pre-commissioning and commissioning documentation are maintained and procedures complied with during execution.
 - Develop individual tasks and durations for pre-commissioning and commissioning activities to meet overall project plan.
 - Manage interfaces with construction disciplines, vendors, QC and client to ensure task completion on time in line with.
 - Managed the planning and resourcing required to execute completion and conducted daily follow-up meetings with all parties involved to track progress and introduce recovery measures when needed.
 - Prepare and operate all kind of Rotating equipment such as Steam turbines, Gas turbines, Pumps and Compressors, BOP etc.....
 - Prepare operation status reports for all equipment's of plant.
 - Plan and execute Maintenance and overhauling and prepare schedules for all equipment's of plant.
- Skills:
 - Process facility commissioning, operations and maintenance.
 - Develop Plant Systemization and Commissioning plans.
 - Development of pre-commissioning method statements and commissioning procedures.
 - Commissioning and testing of large capacity Gas Turbine, Utility steam generators, HRSG, Steam turbines, large high pressure pumps, pipelines and vessels.
 - Pre-commissioning and commissioning of condensate recovery systems, Feed water systems, gas treatment units.
 - Perform and manage chemical cleaning, flushing and blowing piping systems.
 - Manage interfaces between commissioning and all other disciplines.
 - Mechanical Equipment's specifications (STG, GT, Pipeline, Pressure Vessels, Boilers, Heat exchanger, Pumps, Compressors).
 - Management and delivery of pressure / pneumatic test, hydro test, vacuum test and post weld heat treatment.
 - Manage and deliver chemical cleaning, flushing, blowing and leak testing.