

100176-MEC-15OS-E-1996
Mechanical Commissioning Lead Engineer

Holds a B. Sc. in Mechanical Engineering and two post graduated Diploma in steam power plant and in lubricating & friction. Has over 24 years hands-on experience, mainly working in operation, commissioning and start-up for steam and gas turbines.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 17/05/1973
Gender : Male
Marital Status : Married

EDUCATION

- : B. Sc. in Mechanical Engineering, Nasser University - LIBYA, 1996
- : Post graduate Diploma in Steam Power Plant, Cairo University, 2000
- : Post graduate Diploma in Lubricating and friction, Assiut University, 2004
- : Garboly Secondary School, Tripoly – Libya, 1990

LANGUAGES

Arabic : Native Language
English : Very Good

COMPUTER SKILLS

- : Windows, MS Office, Internet
- : MS Project
- : Primavera P6
- : AutoCAD 2D
- : MAC Applications

TRAINING COURSES AND CERTIFICATIONS

- : Operation of the steam power plants by USAID (4 weeks).
- : Maintenance of the steam boilers natural and circulation types (4 weeks).
- : Operation of the gas turbine and combined cycle.
- : Siemens GT commissioning, El-Kureimat II Power Station (summer 2006).
- : 2x600MW Tripoly commissioning courses (summer 1995).
- : Tripoly University Pneumatic aerodynamic lab test (summer 1994).

CHRONOLOGICAL EXPERIENCE RECORD

Dates : From Sep. 2019 till Sep. 2021
Employer : DOOSAN Heavy Industries Limited
Project : Assiut Supercritical Power Plant 650MW
Job title : Mechanical Commissioning Lead Engineer

Dates : From Jan. 2016 till Aug. 2019
Employer : OHL Industrial
Project : ASTPP Amman Strategic Terminal Petroleum Products – Jordan
Job title : Lead Commissioning Process Engineer
Job Description :

- Organize all of the related activities for project priorities.
- Support the construction team for the pre-commissioning activities.
- Contribute to the evolution of the PMG's documentation and methods.
- Introduce of any kind of technical support.
- Involved in the subcontractor's selection for some individual activities.
- Conduct the required supervision for all of the coordination for the subcontractors.
- Meeting with all of the concerned parties to coordinate and advise the scope of work and priorities.

Dates : From Apr. 2015 till Dec. 2015
Employer : GE
Project : Combined Cycle Power Generation Project, Assiut 1500MW GE 8x125MW Frame 9E, Generation Units – Egypt
Job title : Deputy Commissioning Manager
Job Description :

- Ensure the appropriate implementation and execution of commissioning and project handover for all disciplines in his/her area. Commissioning Tools and Man power Preparation.
- Oversee the overall system testing of the facility, systems, sub-system functional performance, in readiness for commissioning.
- Liaise on with client / PMC's operation personnel to approve sub system acceptance.
- Perform static and dynamic tests reports and ensures they are available for hand over teams.
- Prepare and/or review pre-commissioning procedures and plans.
- Ensure QHSE rules are applied on his/her perimeter.
- Organize Pre-commissioning / Commissioning Supervisors, Operators and Vendors / Subcontractors activities.
- To be involved in all aspects of the commissioning cycle for care service through the implementation of agreed commissioning strategies.
- To take responsibility for commissioning services which promote Choice and Independence and Self-Directed Support.
- To be involved in needs analysis to support the development of commissioning strategies.
- To establish strong links within the Commissioning team to lead on decision-making, direction setting and value for money.
- Set up and follow through projects, which evaluate needs and current

services, make recommendations for future commissioning or decommissioning and funding arrangements.

- To devise specifications for commissioned services.
- Work closely with the Supply Management in the commissioning and procurement and monitoring of services.
- To adopt a project management approach to the completion of work and to work to deadlines as required by the services.
- To manage staff as required, especially through project groups.
- To manage a budget as required.
- Ensuring that all commissioned services are regularly reviewed with regard to their relevance and effectiveness.
- Ensure that where commissioned services are seen to be failing, timely interventions are made to avert adverse consequences through effective contract monitoring in partnership with Supply Management and operations.
- Partnership and that commissioning plans produced in such contexts fairly and accurately represent those needs.
- To advise senior managers/ management teams on matters of policy and administration on the basis of research and investigation.

Dates : From Aug. 2014 till Mar. 2015
Employer : INITEC Energia
Project : Combined Cycle Power Generation Project, Giza North 3x750MW, GE Frame 9FA Generation Units – Egypt
Job title : Zone Manager
Job Description :

- SKF HP, IP and Double flow LP Turbines.
- Steam Blow Conventional Preparation.
- Ensure the appropriate implementation and execution of commissioning and project handover for all disciplines in his/her area. Commissioning Tools and Man power Preparation.
- Oversee the overall system testing of the facility, systems, sub-system functional performance, in readiness for commissioning.
- Liaise on with client / PMC's operation personnel to approve sub system acceptance.
- Perform static and dynamic tests reports and ensures they are available for hand over teams.
- Adapt Home office preparation plan to site constraints when required.
- Prepare and/or review pre-commissioning procedures and plans.
- Ensure QHSE rules are applied on his/her perimeter.
- Organize Pre-commissioning / Commissioning Supervisors, Operators and Vendors / Subcontractors activities.

Dates : From Oct. 2012 till Jul. 2014
Employer : Arabian Bemco Contracting Company
Project : Six Power Blocks x 680MW Combined Cycle Power Plant GE Frame 7FA, Al Qurayyah (Remote Area), Khobar, Eastern Province, Saudi Arabia
Job title : Commissioning & Start-up Manager
Job Description :

- Simple Cycle GE Frame 7FA.
- STG GE Steam Turbine.
- Steam Blow Conventional Preparation.

- Systems Procedures Preparation.
- Commissioning Tools and Man power Preparation.
- Commissioning Spare Parts Preparation.
- Coordination between the Customer and the Company.
- In charge of Commissioning Completion Certificate CCC Package for Turn over Package TOP, TOAC extractions.
- WWTP, SWTP, COTP and WTP Full commissioning.
- Air Separation Plant H2, CO2, O2 and N2 Gases Commissioning.

Dates : From Feb. 2011 till Sep. 2012

Employer : Kharafi National

Project : 8x125MW Gas Turbine Generation GE 9E Units, Al-Shabab SCPP, Ismailia, Egypt

Job title : Mechanical Commissioning Lead Engineer / Acting as a Commissioning Manager

Job Description :

- Follow up the Construction activities, Commissioning activities preparation.
- Walk down all the related systems.
- Receiving the related systems from Q.C.
- Systems Procedures Preparation.
- Commissioning Tools and Man power Preparation.
- Commissioning Spare Parts Preparation.
- Coordination between the Customer and the Company.
- Coordination between all the related Companies including the Manufacture.
- TOP Preparation.
- Water Treatment Plant Pre/Commissioning.
- R.O Plant Commissioning.
- Waste Water Plant WWP.
- Sewage Water Plant SWP.
- Demineralization Water Plant DWP 330 Cubic Meter / Hr.
- Desalination Plant, Warrantee issue follow up.
- Gas Treatment Plant Experience.
- WWTP, SWTP, COTP and WTP Full commissioning.

Dates : From Oct. 2010 till Jan. 2011

Employer : Hitachi Somotomo

Project : 2x350MW Steam Turbine, Gas Fired Generation Units, Cairo West PP, Giza, Egypt

Job title : Lead Mechanical Commissioning / Start-up Engineer

Job Description :

- Demonstrate personal HSE leadership and behaviors at all times. Perform as a safety leader through all work and activities, setting and exhibiting the highest standard.
- Support contractor-commissioning engineers to ensure that Systems Completion Plans are being prepared during detailed design phase and are being properly executed during construction and commissioning phases.
- Assist EPC contractors with developing system completion plans and ensure that these plans are meeting the intent of project specifications

with regard to engineering deliverables during detailed design phase.

- Lead the review and approval process for the Systems Completion Plan, with primary focus on EPC contractor during detailed design phase.
- Steam Blow Preparations & Reassessment Works Supervision.
- Light off The Boiler from DCS and Following up the Firing Behavior Conditions.
- Lead the review and approval process for the Systems Completion Plan, with primary focus on EPC contractor during detailed design phase.
- Gas Treatment Plant Experience.
- Review and edit contractor drafted pre-commissioning and commissioning procedures.
- Support site-commissioning teams in fabrication yards and at site with critical activities and regularly inspect equipment and systems with focus on interfaces and tie-ins.
- Actively assist EPC contractor to identify commissioning interfaces between EPC contractor and key module or other suppliers and ensure that any technical interface issues are raised early.
- Identify temporary commissioning interfaces that will be needed during the commissioning phase of the project at site and ensure those are being addressed (e.g. temporary blinds, vents, drains, electrical power, etc.).
- Support Systems Completion Database lead to ensure that completion testing and verification for interfaces and tie-ins are included in the testing program and that ownership of the interface testing is established (i.e. who is going to do it is known and ownership agreed).
- Support PMT Cost and Schedule function with Commissioning related inputs from an overall project perspective.
- Support the Commissioning Manager with staff work, including generation of draft weekly reports, progress tracking, key issue updates. Stands in for Commissioning Manager during leaves.
- Follow project through the Provisional Acceptance of final facilities.

Dates	:	From Jul. 2009 till Sep. 2010
Employer	:	Initec Energia
Project	:	2x350MW Steam Turbine, Gas Fired Generation Units, El-Tebbin PP, South Cairo, Cairo, Egypt
Job title	:	Lead Commissioning / Start-up Engineer
Job Description	:	<ul style="list-style-type: none">• Construction Supervision, Commissioning / Start-up, O&M Engineer.• Receive the systems from Q.C & Construction.• Scheduling the system procedure.• Preparation and executing all the pre-commissioning and commissioning activities.• Follow the planning works in advance.• Start the systems with data sheet references.• Hand over the systems with the integrated rules.• Preparation for processes water flushing and steam blowing.• WWTP, SWTP, COTP and WTP Full commissioning.

Dates : From Dec. 2008 till Jun. 2009
Employer : Mitsubishi Heavy Industries LTD
Project : 750MW Generation Units MHI 701F3 CCPP, Sidi Krir Project, Alex.
Job title : Lead Mechanical Commissioning / Start-up Engineer
Job Description :

- Construction Supervision, Commissioning / Start-up, O&M Lead Engineer.
- Supervising installing for all auxiliary Equipment.
- Scheduling the system procedure.
- Following the planning works in advance.
- Make a (motors heat run, flushing, blow out, chemical cleaning, and then the restoration work.

Dates : From Aug. 2007 till Nov. 2008
Project : Assiut Thermal Power Plant 2x312MW
Job title : Maintenance Team Leader Engineer
Job Description :

- Operation and Maintenance Lead Engineer.
- Maintenance of large capacity & head pumps (boiler feed water pumps), Vacuum pumps.
- Maintenance of large capacity heat exchangers (feed water heaters, condensers, and large service condensers, etc.).
- Maintenance of chemical dosing pumps.
- Maintenance of many types and sizes of manual & control valves: (globe, gate, butterball, needle, Auma, bifi, mci, limitorque, etc.) and may types of electric and pneumatic actuators.
- Familiar with firefighting systems (commissioning) especially in large power plants (Halon, CO2, foam, water, etc.).

Dates : From Aug. 2005 till Jul. 2007
Project : Assiut Thermal Power Plant (2x312MW)
Job title : Senior Operation (BTG board) Engineer
Job Description :

- Operation and Maintenance Senior Engineer.
- Operation for tow boilers (Mitsubishi and Ansaldo 1025 t/h), forced and natural circulation.
- Responsible for the safe start-up, shutdown and unit's normal operation.
- Doing All the Electrical Man-oeuvres and bus bars change over for 500KV, 220KV and Power Canters.
- H2/O2 generation plants. Reciprocating, rotary and screw air compressors up to 10 Bars.
- 50 t/h auxiliary boiler.
- Diesel generator 2x1.2MW.
- Water system, demineralized water system.
- The auxiliary system (firefighting system, service cooling).
- Water system, demineralized water system.
- Training the new staff.

Dates : From Feb. 2000 till Jul. 2005
Employer : PGESCO (Power Generation Engineering and Service Company)

- Project** : El-Kureimat Thermal Power Plant 2x627MW
- Job title** : Senior Operation DCS Engineer
- Dates** : From Jul. 1997 till Jan. 2000
- Employer** : Egyptian Air Force
- Project** : 4x1.2MW Diesel Power Generation Units, co-operation with the American Service Company (SEAVIN), Beni Suef Air Force Base, Egypt
- Job title** : Diesel Generation Power Plant Manager
- Job Description** :
- O&M Manager.
 - Responsible for the safe start-up, safe operation and safe shutdown of 4x1.2MW diesel generator units.
 - 3.3KV / 11KV (substation).
 - Preparation of operation manual and operation procedure.
 - Maneuvers for load of (3.3KV) and 11KV panels.
 - Commissioning and Start-up for the diesel generators units.
 - Diesel Generators mobilization and installation supervision.
 - Support the vendors in the installation and commissioning & Start-up phase.
- Field of experience** :
- Responsibilities:
 - Overall Purpose, Undertake Project Management of assigned projects to assist director of Projects as required.
 - Identify resources needed and assigns individual responsibilities.
 - Manage day-to-day operational aspects of a project and scope.
 - Review deliverables prepared by team before passing to client.
 - Possess general understanding of system design, integration, installation, Factory and Site Test, Commissioning and Handover, Possess a thorough understanding of Company capabilities in Telecom, Safety and Security System.
 - Motivate team to work together in the most efficient manner in office and at site.
 - Mitigate team conflict and communication problems, Manage day-to-day client interaction.
 - Qualifications:
 - I have been started my career as a Diesel Power Plant Manager in Egyptian Air Force Egypt (4x1.2MW) diesel power generation units, doing the maintenance and the predictive maintenance for the machine without affecting the machines, cooperation With the American Service Company (SEAVIN), Responsible for the safe start-up, safe operation and safe shut down of four diesel generator units each unit 1.2MW, 3.3KV / 11KV (substation), Preparation of operation manual and operation procedure, Manoeuvres for load of (3.3KV) and 11KV, then I joined a big power plant (Upper Egypt of Electricity Power Plant Company – UEEPC).
 - In 1999, I worked as Field Engineer monitoring the operation for thermal boiler and steam turbine for thermal plant (2x650MW), I had the ability to isolate the equipment and normalizing the systems as per the PTW and LOTO in a proper way and checking the system during normal operation and I had the ability to take action in case if any emergency without interruption the operation

of the systems, then I transferred to O&M Power Project in Egypt, I already handled lot of tests with the contractors (hydro test, leakage test,) but the main job is to follow start-up and commissioning to work later in operation for the gas turbine and HRSG (Heat Recovery Steam Generator).

- I promoted to be a Shift Engineer for the operation with a complete staff from engineers and technicians, monitoring the operation of the gas turbine and taking action if needed I had responsible for the PTW and LOTO, I have been attended the chemical cleaning and steam blow for the boiler and he became a Shift Engineer till 2007 monitoring the operation for the gas turbine / HTSG familiar with the start-up and shut down for the combined cycle starting from the gas turbine until synchronizing for the steam turbine to the grid, then I moved to Mitsubishi Heavy Industries 701 F3, CP-101, LTD, Sidi Krir Project, Alex. Cairo, assigned for Supervising. Installing for all aux. Equipment, Scheduling the system procedure Following the planning works in advance, Make a (motors heat run, flushing, blow out, most of the Construction, commissioning and start-up chemical cleaning, then the restoration work till 2009.
- I moved to Initec Energia CP-118, Cairo – Egypt, Receive the systems from Q.C & Construction, Scheduling the system procedure, Preparation and executing all the pre-commissioning and commissioning activities, Follow the planning works in advance, Start the systems with data sheet references, Hand over the systems with the integrated rules, Preparation for processes water flushing and steam blowing till 2010.
- I moved to Hitachi Somotumo CP-105, Cairo – Egypt, Commission all air, Fuel and Gas Dampers, Commission all air and Gas fans, Commission all Fans and Dampers Regarding to The Demand and Feedback Signals, Steam Blow Preparations & Reassessment Works Supervision, Light off The Boiler from DCS and Following up the Firing Behavior Conditions.
- Also, HVAC Systems Supervision and Handover to Client. Till Jan. 2011, then moved to Kharafi National EPC Contract, El Emalia – Egypt, Walk down all the related systems, Receiving the related systems from Q.C, Systems Procedures Preparation, Commissioning Tools and Man power Preparation, Commissioning Spare Parts Preparation, Coordination between the Customer and the Company.
- Coordination between all the related Companies including the Manufacture, TOP Preparation, Water Treatment Plant Pre/Commissioning, R.O Plant Commissioning, Warrantee issue follow up till December 2012.
- Then moved finally to Arabian Bemco, Al-Qurayyah Power Plant Project, Al-Khobar – Saudi Arabia, Six Power Blocks x 680MW Combined Cycle Power Plant Consortium Arabian BEMCO & DOSSAN Consortium as a Lead Mechanical Commissioning – Start-up Engineer, Simple Cycle GE Frame 7FA, STG GE Steam Turbine, Steam Blow Conventional Preparation, Systems Procedures Preparation, Commissioning Tools and Man power Preparation, Commissioning Spare Parts Preparation, Coordination between the Customer and the Company, CCC

Package Preparation for TOP.

- Main Achievements:
 - Finishing the Start-up / Pre-Commissioning / Commissioning for the BOP system (Demineralization Water plant, Electro-chlorination, Closed Cooling System, Fire Water System, Instrument Air and Service Air System, Waste Water System and the Demineralization Plant, potable water distribution) and the main system (condensate system and condenser vacuum system, water box priming system and all the sump pits related to the project, boiler feed system including the flushing and air blowing on the target time in Al Qurayyah power plant.
 - Preparing the Commissioning Packages for the Qurayyah Combined Cycle, KSA in the target time in ten months.
 - Pushing the Construction to close the punch list.
 - Following the drawing with the engineering in case if any design change.
 - Monitoring the Combined Cycle Operation including all the Auxiliaries System during operation and solving the entire problem without operation any interruption.
 - Advice the top management to enable him takes vital decisions on technical matters.
 - Prepare daily, weekly, quarterly and annual technical reports.
 - Responsible to secure new business at group level by building strategic relationship with new clients.
 - Support during new joint ventures & provide support to group companies by strengthening relationships.
 - Support technically by reviewing, supervising & monitoring all design, value engage & Construction activities to major projects.
 - Received Internal Memorandum from other sections, handling, follow-up, reply and file.
 - Handling Workflows to be print, follow-up, reply and file.
 - Representing the company with clients, contractors and vendor partners and an innate ability to network with project members, consultants and contractors with perfect ease. Job requirements:
 - Demonstrate well-developed written communication skills.
 - Put forward ideas – consider and encourage the views of others.
 - Prepare well-structured documents with attention to detail.
 - Provide accurate and time information, as & when required.
 - Liaise effectively with internal and external clients / customers.
 - Demonstrate initiate and strives to improve work practices.
 - Organize workload effectively to achieve the required outcome.
 - Adapt to changing priorities.
 - Deliver services with a client focus.
 - Review of commissioning procedures, test plans and Site Acceptance Test (SAT) plans.
 - Monitoring of and reporting on the progress of the commissioning activities and delivery of documents.
 - Participate in daily and weekly coordination meetings.
 - Advise (requested or unrequested) the Commissioning Manager.
 - Key staff responsible for startup of Centre Line Equipment.

- Technical quality of the commissioning documents including consistency of the schedule(s).
- Monitoring of proper execution of Site Test Procedures.
- Reporting on progress of the commissioning activities.
- Reporting on the progress of the punch lists.
- Commissioning Engineer / HUC, Mechanical Engineering, Mechanical, Commissioning, Start-up, Hook-up, HUC, Turbine.
- Assist in the trouble shooting as required.
- Engineering Skills:
 - Development Planning Scheduling DPS, conducting and co-coordinating the technical aspects of projects, and Programs for following and forecast all Project Engineering activities using planning software.
 - Assist of preparations, review; follow up of engineering project/technical proposals for Rotating Equipment, Pumps, Electric Submersible Pumps ESP, Turbines, fans and piping.
 - Development with Process Engineering the Systematization and Prioritization Utilities and Process Systems in order to establish responsible Owners for Pre-Commissioning, Commissioning and Start-up.
 - Coordination with operation personnel al the Documentation and Procedures for Commissioning / Start-up.
 - Develop of KPI's, Key Performance Indicators, for monitoring performance in equipment operations and take corrective actions.
- Management Skills:
 - Project Management Professional PMP, Final Exam Preparations.
 - Manpower Management: Managing 15 Operation Engineers, 10 Commissioning Engineers and 25 Technicians and Helpers.
 - Problems and Solutions Management: The Project Manager decided to change the scope of work, the problem discussed and the last decision taken to keep the status as it is.
 - Technical Problems Management: Fuel Flushing stopped suddenly, critical time, no time, we have to hand the system over to the client, the decision was to walk down the system mechanically, electrically and finally instrumentation, we found the problem out and reinstate it immediately.