

100179-MEC-1GHMOSY-E-2001
Lead Mechanical Commissioning & Start-up Engineer

Holds a B. Sc. in Mechanical Power Engineering and has over 12 years hands-on experience working in operation, maintenance, commissioning and start-up of Combined Cycle Power Plants.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 18/03/1978
Gender : Male
Marital Status : Married

EDUCATION

: B. Sc. in Mechanical Power Engineering, Alexandria University, 2001

LANGUAGES

Arabic : Native Language
English : Excellent

COMPUTER SKILLS

: Windows, MS Office (Word, Excel, Access, Power Point), Internet
: MS Project
: Adobe Acrobat Professional

TRAINING COURSES AND CERTIFICATIONS

: Basic maintenance training on Steam Turbine 250MW by Mitsubishi Heavy Industries Co., Nagasaki, Japan.
: Basic maintenance training on Generator 250MW by Mitsubishi Corporation Energy Systems Co., Kobe, Japan.
: Basic maintenance training on Steam Turbine 250MW by Mitsubishi Heavy Industries Co., Nubaria, Egypt.
: Basic operation and maintenance on Combined Cycle by West Delta Electricity Production Company, Damanhour, Egypt.

CHRONOLOGICAL EXPERIENCE RECORD

Dates : From May 2015 till Jun. 2016
Employer : [EGYPTROL](http://www.egyptrol.com), GE Energy Subcontractor
Project : Assiut Combined Cycle Project
(1500MW, 8x125MW GAS TURBINE frame 9 E & 2x250MW steam turbine)

Job title	:	Lead Mechanical Commissioning & Start-up Engineer
Job Description	:	• Manage construction / completion activities and to ensure compliance with commissioning expectations. • Provide technical assurance that construction activities are performed and completed to the required project standards in compliance with an approved completions database. • Accept the mechanical completion of systems. • Provide assurance through audit of the construction process through to mechanical completion. • Provide supervision and guidance during the commissioning of discipline related activities. • Lead a team of commissioning supervisors and technicians for the development and execution of pre commissioning and commissioning activities. • Act as the commissioning focal point for coordinating commissioning with the construction teams and project engineering disciplines. • Review handover packages discipline site activities and handover package reviews and audits. • Act as commissioning authority during commissioning. • Provide detailed commissioning records including daily reports and shift handover notes. • Ensure that commissioning activities are coordinated and managed with other commissioning engineers. • Ensure that punch lists and engineering queries are closed out prior to handover to operations. • Support the commissioning team leader in implementing the commissioning certification and handover process and ensure that the commissioning team leader is kept informed on overall progress.
Dates	:	From Jun. 2014 till May 2015
Employer	:	STF Company
Project	:	Giza North Combined Cycle (3x750MW) Power Station
Job title	:	Commissioning Engineer & Start-up Boiler
Job Description	:	• Attending coordinate all activity for Commissioning team with the Owner. • Responsible for Operation of all components and skid of Steam Turbine (Mechanical and Electrical Commissioning Meeting with PGESCO and Owner) from monitor and local, start-up the turbine from Control Room, follow up all Work Permits and all required activity in Work Permits can be done and also do all the following: - Prepare the documents from WINPCS (i.e. check-sheet, Punch-list, etc.). - Make documents for all each Electrical, Mechanical and Instruments Components. - Follow Commissioning Team. - Coordination with Electrical, Instrumentation & Mechanical for the work permits for work will be done day by day. - Compiling of System Component List, Punch List, and Document required for operation & Inspection test record for system Completion package. - Monitoring of Punch item category and coordinating & follow up with discipline for the punch closing and inform company for

verification.

- Submission of Mechanical, Instrument and Electrical Completion Dossier after completion Commissioning and start up certification.
- Preparation of system definition drawing for Commissionable system for Electrical, Control Automation and Non P&ID systems.
- Maintaining Librarian filling for all types of documents such as drawings, specifications, manuals, procedures, test records, Field design change, system definition drawing, transmittal and others for easy retrieval when requested.

Dates : In Jun. 2014
Employer : [EGYPTROL](http://www.egyptrol.com), TOSHIBA/TOYOTA Subcontractor
Project : Sidi Krir Combined Cycle (1x750MW) Power Station
Job title : Warranty Engineer
Job Description :

- Perform handover spare parts to owner & closed all punch item and warranty notes.
- Perform daily report for all system.

Dates : From May 2011 till Jun. 2014
Employer : Middle Delta Electricity Production Company (MDEPC)
Project : Nubaria Combined Cycle (3x750MW) Power Station:

- Two modules, each module consists of:
 - Two Siemens CTG 250MW type V94.3A
 - Two horizontal Alstom HRSGs
 - One Mitsubishi STG 250MW (HP, IP, LP)
- One module consists of:
 - Two GE CTG 250MW
 - Two horizontal STF HRSGs
 - One Alstom STG 250MW (HP, IP, LP)
- 220KV switchyard, 500KV switchyard
- Four tie transformers 500/220KV
- Medium and Low Voltage Switchgears
- 8 outgoing circuits 220KV, 2 outgoing circuits 500KV

Job title : Mechanical Maintenance Engineer
Job Description :

- Assist in CI inspection for GE gas turbine frame FA9001 (250MW), I worked with Technical Advisor GE Company.
- Assist in warranty inspection for GE gas turbine frame FA9001 (250MW), I worked with Technical Advisor GE Company.
- Assist in inspection for GE frame FA9001 (250MW) generator, I worked with Technical Advisor GE Company.
- Assist in Major inspection for GE gas turbine frame FA9001 (250MW), I worked with Technical Advisor GE Company.
- Assist in minor inspection for Siemens gas turbine V94.3A (250MW), I worked with Siemens Group.
- Assist in hot gas path inspection for Siemens gas turbine V94.3A (250MW), I worked with Siemens Group.
- Assist in major inspection for Siemens gas turbine V94.3A (250MW),

I worked with Siemens Group.

- Assist in Erection of wet compression system for 2 units Siemens gas turbine V94.3A (250MW), I worked with Globle Company.
- Assist in minor inspection for Mitsubishi steam turbine (250MW), I worked with Technical Advisor Mitsubishi Company.
- Assist in warranty inspection for Mitsubishi steam turbine (250MW), I worked with Technical Advisor Mitsubishi Company.
- Assist in inspection and maintenance for 2 overhead cranes (120 Tons), I worked with KUHNEZUG Company.
- Assist in mechanical store as Material Control Engineer for companies (Siemens, Mitsubishi, Initec, KSB, KUHNEZUG,).
- Follow up the maintenance activities for the gas and steam turbine.
- Overhaul Inspection pump house pumps and Maintenance compressor and travel screen.
- Experience in rotating equipment maintenance including pumps, compressors, hydraulic pumps and valves.
- Additionally, I worked 6 months as HRSG Mechanical Engineer in Nubaria Power Station & water treatment.

Dates : From Nov. 2009 till May 2011
Employer : Mitsubishi Heavy Industries
Project : Cairo West (2x350MW) Steam Turbine
Job title : Commissioning & Start-up Engineer
Job Description :

- Pre-commissioning, commissioning, equipment test activities for all 2x350MW steam turbine generators.
- Perform lube oil and control oil flushing.
- Perform steam blow for gland steam system.
- Valve adjustment for MSV, cavernd and IC.
- Perform all steam turbine tests.
- Perform all start-up check normal operation.

Dates : From Oct. 2005 till Nov. 2009
Employer : Middle Delta Electricity Production Company (MDEPC)
Project : Nubaria Combined Cycle (2x750MW) Power Station
Job title : Senior Shift Charge Engineer
Job Description : Operation of 2 modules (each 750MW) 4x250MW Siemens Gas turbine type V94.3A, all auxiliaries (fuel gas and fuel oil Supply system, lube oil system, hydraulic system, compressed Air system, cooling system purge water system).

Dates : From Dec. 2004 till Oct. 2005
Employer : Middle Delta Electricity Production Company (MDEPC)
Project : Nubaria Combined Cycle (2x750MW) Power Station
Job title : Commissioning Engineer
Job Description :

- Perform lube oil & control oil & fuel oil and closed cooling flushing.
- Hydraulic test for all piping (lube oil & purge water & natural gas fuel oil and pneumatic system).

- Test motor for main oil pump & lifting pump & vapor extractor and closed cooling pump.
- Chemical cleaning and steam blow for boiler.
- Perform all test protection for steam and gas turbine (Siemens 94.3A).

Dates : From Oct. 2003 till Dec. 2004
Employer : Middle Delta Electricity Production Company (MDEPC)
Project : Damanhour Combined Cycle (156MW)
Job title : Operation Engineer
Job Description : Responsible for operating of:

- 4 Hitachi gas turbines.
- 4 Vertical HRSGs.
- 1 GE steam turbine (60MW).

Field of experience :

- Main Achievements:
 - Finishing the pre-commissioning and commissioning for 8 gas turbines in Assiut, with GE.
 - Finishing the start-up & pre-commissioning & commissioning and steam blow for 8 heat recovery steam boilers with STF in Giza North Combined Cycle (3x750MW) Power Station.
 - Pre- commissioning and commissioning for the basic system for the steam turbine in West Cairo Project including the closed cooling system and fuel system, instrument and service air system, air inlet system to the compressor and operation for the gas turbine monitoring all the auxiliary systems and the main system for the turbine (lube oil system, seal cooling air system, and monitoring the turbine behavior from the frequency and voltage and excitation during connection to the grid,).
 - Pushing the construction people to close the punch list.
 - Following the drawing with the engineering in case if any change for the design.
 - In Egypt (MDEPC) I worked as a client following the start-up and commissioning finding the punch list and pushing for closing.
 - Monitoring the combined cycle operation including all the auxiliary system during operation and solving the entire problem without any interruption for the operation of the combined cycle during the critical stage (peak load).
 - I was working as a Lead Commissioning Engineer supervising all the construction activity and engineering technical issues and all the commissioning activities.
 - Finally I am working as a Lead Mechanical Commissioning Engineer in Assiut Combined Cycle Project (1500MW).
- Engineering Skills:
 - Development Planning scheduling, conducting and 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, ESP (Electric Submersible) Pumps, 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 at the Documentation and Procedures for Commissioning and Start-up.
- Develop of KPI's (Key Performance Indicators) for monitoring performance in equipment operations and take corrective actions.
- Software packages (Windows Office, Primavera).
- Field assistance and supervision in construction phase for equipment installation, Pre-commissioning, Turn Over, Commissioning and Start-up.
- Coordination meetings with Operations and Sub-Contractors.
- Qualifications:
 - I started my career as Operator Engineer with Middle Delta Electricity Production Company (MDEPC) a company in Egypt. Field Engineer monitoring the operation for combined power plant (150MW) four Gas turbine type Hitachi (25MW) with steam turbine (50MW), 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 the new project in the same company (2x750MW) combined cycle project to follow the construction for the gas turbine (SIEMENS), 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, then I promoted to be a Lead 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 attended the chemical cleaning and steam blow for the boiler and I became a Lead Shift Engineer for the combined cycle till 2009 monitoring the operation for the gas turbine 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. I took a vacation from my company and I employed in Mitsubishi Heavy Industries Company as Start-up/Commissioning Engineer in Cairo West (2x350MW) steam turbine in Egypt. I did all the pre-commissioning and commissioning for the auxiliary and main system for the steam turbine equipment test activities for all perform lube oil and control oil flushing & steam blow for gland steam system & a adjustment for MSV & caverned and IC, perform all Steam turbine tests and perform all start-up and performance then check normal operation.
 - Then Mechanical Maintenance Engineer for Nubaria Combined Cycle (2x750MW) Power Station, I perform Major inspection for Siemens CTG 250MW Type V94.3A, include chemical cleaning, changing Of ceramic tiles combustion chamber, check axial & radial clearance for blade, coating, sand past Check cracks, overhaul inspection pump, follow up Prevent, corrective Maintenance for STG & CTG.
 - Then Warranty Engineer for Toshiba in Sidi Krir Power Plant (750MW), perform handover spare parts to owner & closed all punch item and warranty notes perform daily report for all system.
 - I work as a Lead Mechanical Commissioning Engineer for gas

turbine frame 9E at Assiut Project (8x125MW) in Egypt. I am responsible for all the pre-commissioning including flushing, air blowing and run test for the equipment and leading the electrical to do the testing and commissioning for the switchgear to be ready for the power up and also leading the I&C to do the hot loop check, and function check to finish the commissioning for any system as a process flushing for all system for gas turbine, lube oil & liquid fuel & closed cooling & Atomizing air & gas fuel & water injection & water washing and hydraulic system. Perform rotation check & solo & heat run test for all motor of the system. Perform co2 test & first fire & false start & cost down and over speed test.